


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-34L1CS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0149077			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2071 FSL 1012 FWL		NWSW	34	9.0 S	22.0 E	S		
Top of Uppermost Producing Zone		2107 FSL 1021 FWL		NWSW	34	9.0 S	22.0 E	S		
At Total Depth		2107 FSL 1021 FWL		NWSW	34	9.0 S	22.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 785			23. NUMBER OF ACRES IN DRILLING UNIT 600				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 74			26. PROPOSED DEPTH MD: 8970 TVD: 8969				
27. ELEVATION - GROUND LEVEL 4989			28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2360	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8970	11.6	I-80 LT&C	12.0	Premium Lite High Strength	310	3.38	12.0
							50/50 Poz	1210	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker				TITLE Regulatory Analyst II			PHONE 720 929-6086			
SIGNATURE				DATE 01/03/2013			EMAIL gina.becker@anadarko.com			
API NUMBER ASSIGNED 43047534970000				APPROVAL  Permit Manager						

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-34L1CS**

Surface: 2071 FSL / 1012 FWL NWSW
BHL: 2107 FSL / 1021 FWL NWSW

Section 34 T9S R22E

Uintah County, Utah
Mineral Lease: UTU-0149077

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,162'	
Birds Nest	1,500'	Water
Mahogany	1,914'	Water
Wasatch	4,372'	Gas
Mesaverde	6,747'	Gas
Sego	8,969'	Gas
TVD	8,969'	
TD	8,970'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

11/27/2012

RECEIVED: December 27, 2012

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8969' TVD, approximately equals
5,471 psi 0.61 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,522 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

10. Other Information:

Please refer to the attached Drilling Program.

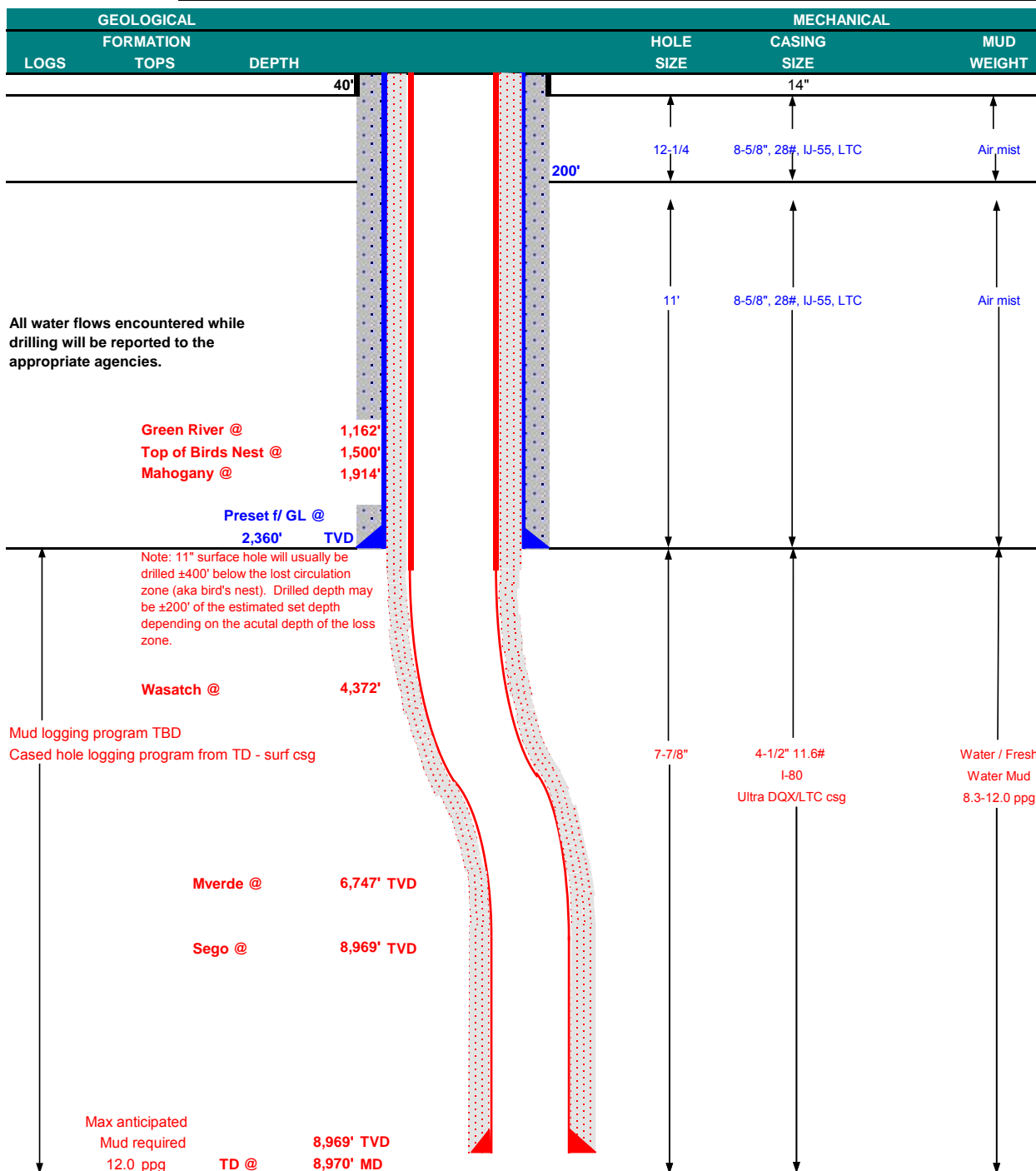
11/27/2012

RECEIVED: December 27, 2012



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 27, 2012		
WELL NAME	NBU 922-34L1CS					TD	8,969'	TVD	8,970' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4,989'
SURFACE LOCATION	NWSW	2071 FSL	1012 FWL	Sec 34	T 9S	R 22E			
	Latitude: 39.990951		Longitude: -109.431965			NAD 83			
BTM HOLE LOCATION	NWSW	2107 FSL	1021 FWL	Sec 34	T 9S	R 22E			
	Latitude: 39.991049		Longitude: -109.431932			NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

						DESIGN FACTORS		
						LTC		DQX
	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,360	28.00	IJ-55	LTC	2.29	1.70	6.01
						7,780	6,350	223,000
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.13	3.14
						7,780	6,350	223,000
	4-1/2"	5,000 to 8,970'	11.60	I-80	LTC	1.11	1.13	5.93

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,870'	Premium Lite II + 0.25 pps celloflake + .4% FL-52	310	35%	12.00	3.38
			+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +				
			1.2% Sodium Metasilicate + .05 lbs/sk Static Free				
	TAIL	5,100'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,210	35%	14.30	1.31
			+ 1.2% Sodium Metasilicate + .5 % EC-1				
			+ .002 gps FP-6L + 2% Bentonite II				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

If extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

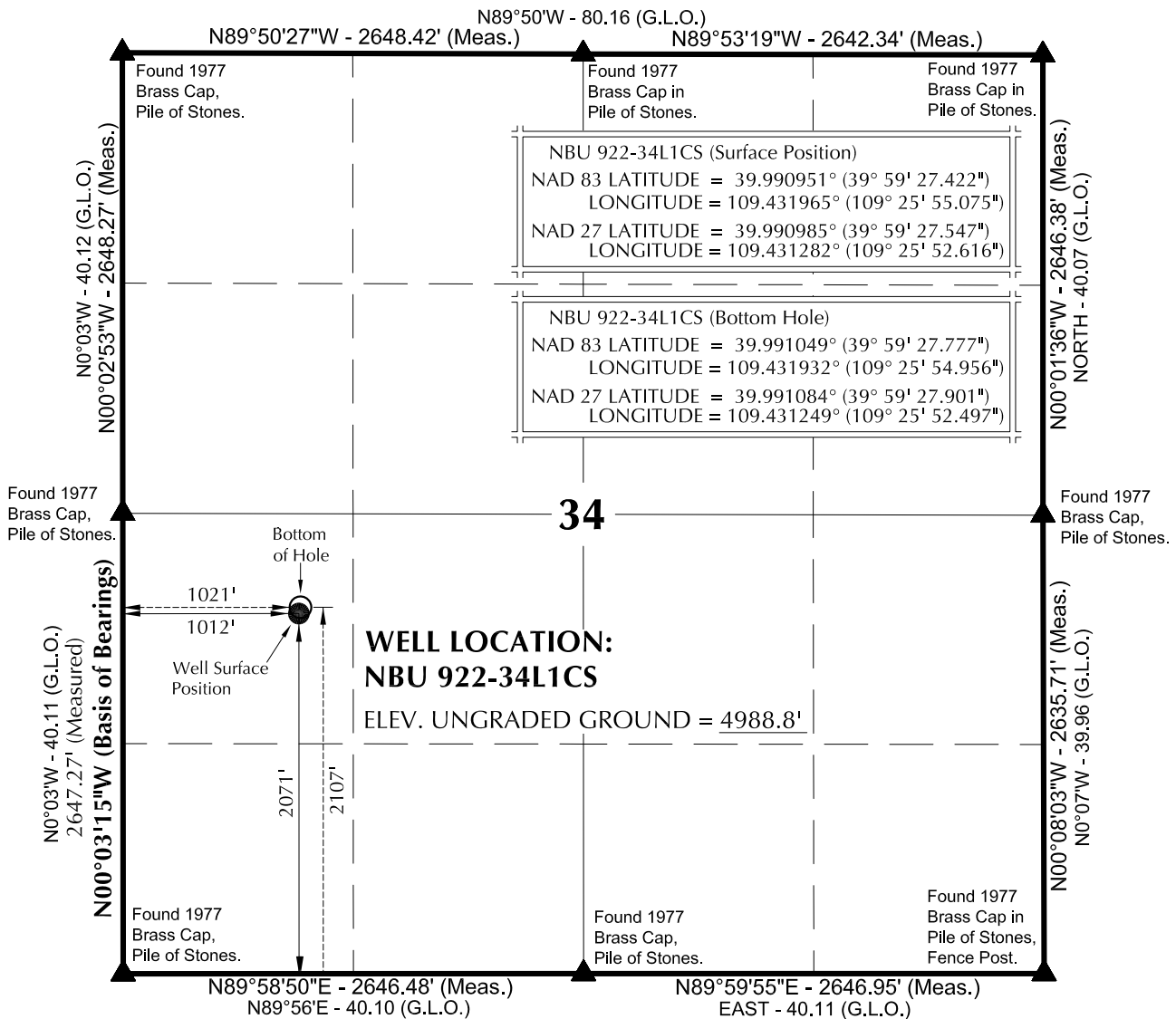
DRILLING ENGINEER:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliot

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

T9S, R22E, S.L.B.&M.**NOTES:**

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
G.L.O. distances are shown in feet or chains.
- 2. 1 chain = 66 feet.
- 3. The Bottom of hole bears N14°25'29"E 37.06' from the Surface Position.
- 4. NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002).
- 5. Bearings and Distances are based upon a Local Cartesian Grid, oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot.
- 6. Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

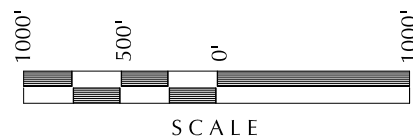
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 922-34L

**NBU 922-34L1CS
WELL PLAT**

**2107' FSL, 1021' FWL (Bottom Hole)
NW ¼ SW ¼ OF SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**

CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John R. Haugh
PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH

TIMBERLINE

(435) 789-1365

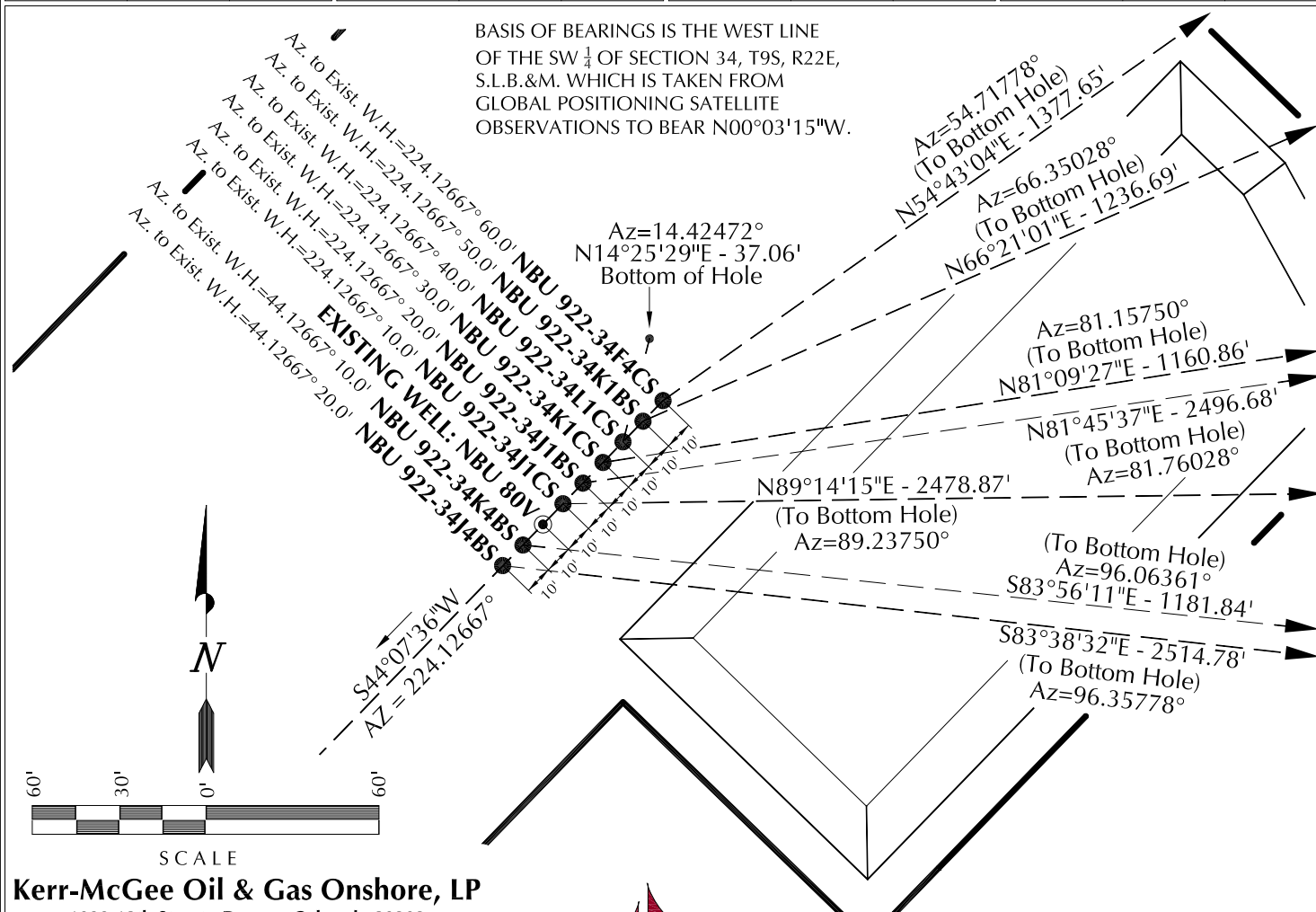
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO: 3 3 OF 20
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'	Date Last Revised: 9-15-12 T.J.R.	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-34F4CS	39°59'27.564"	109°25'54.896"	39°59'27.689"	109°25'52.437"	2085' FSL	39°59'35.421"	109°25'40.447"	39°59'35.546"	109°25'37.988"	2408' FNL
NBU 922-34K1BS	39.990990°	109.431916°	39.991025°	109.431233°	1026' FWL	39.993173°	109.427902°	39.993207°	109.427219°	2151' FWL
NBU 922-34K1CS	39°59'27.493"	109°25'54.986"	39°59'27.618"	109°25'52.527"	2078' FSL	39°59'32.390"	109°25'40.432"	39°59'32.515"	109°25'37.974"	2574' FSL
NBU 922-34J1BS	39.990970°	109.431940°	39.991005°	109.431257°	1019' FWL	39.992331°	109.427898°	39.992365°	109.427215°	2152' FWL
NBU 922-34L1CS	39°59'27.422"	109°25'55.075"	39°59'27.547"	109°25'52.616"	2071' FSL	39°59'27.777"	109°25'54.956"	39°59'27.901"	109°25'52.497"	2107' FSL
NBU 922-34K1CS	39.990951°	109.431965°	39.990985°	109.431282°	1012' FWL	39.991049°	109.431932°	39.991084°	109.431249°	1021' FWL
NBU 922-34K1CS	39°59'27.351"	109°25'55.164"	39°59'27.476"	109°25'52.706"	2064' FSL	39°59'29.110"	109°25'40.430"	39°59'29.235"	109°25'37.972"	2242' FSL
NBU 922-34J1BS	39.990931°	109.431990°	39.990966°	109.431307°	1005' FWL	39.991419°	109.427897°	39.991454°	109.427214°	2152' FWL
NBU 922-34J1BS	39°59'27.280"	109°25'55.254"	39°59'27.405"	109°25'52.795"	2057' FSL	39°59'30.806"	109°25'23.514"	39°59'30.930"	109°25'21.056"	2414' FSL
NBU 922-34J1CS	39.990911°	109.432015°	39.990946°	109.431332°	998' FWL	39.991890°	109.423198°	39.991925°	109.422516°	1821' FEL
NBU 922-34J1CS	39°59'27.209"	109°25'55.343"	39°59'27.334"	109°25'52.884"	2050' FSL	39°59'27.525"	109°25'23.506"	39°59'27.650"	109°25'21.048"	2082' FSL
NBU 922-34J1CS	39.990891°	109.432040°	39.990926°	109.431357°	991' FWL	39.990979°	109.423196°	39.991014°	109.422513°	1821' FEL
NBU 922-34K4BS	39°59'27.068"	109°25'55.522"	39°59'27.192"	109°25'53.063"	2035' FSL	39°59'25.830"	109°25'40.428"	39°59'25.954"	109°25'37.969"	1910' FSL
NBU 922-34K4BS	39.990852°	109.432090°	39.990887°	109.431407°	977' FWL	39.990508°	109.427897°	39.990543°	109.427214°	2152' FWL
NBU 922-34J4BS	39°59'26.997"	109°25'55.612"	39°59'27.121"	109°25'53.153"	2028' FSL	39°59'24.235"	109°25'23.510"	39°59'24.360"	109°25'21.053"	1749' FSL
NBU 922-34J4BS	39.990832°	109.432114°	39.990867°	109.431431°	970' FWL	39.990065°	109.423197°	39.990100°	109.422515°	1822' FEL
NBU 80V	39°59'27.138"	109°25'55.433"	39°59'27.263"	109°25'52.974"	2042' FSL					
NBU 80V	39.990872°	109.432065°	39.990906°	109.431382°	984' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34F4CS	795.7'	1124.6'	NBU 922-34K1BS	496.1'	1132.8'	NBU 922-34L1CS	35.9'	9.2'	NBU 922-34K1CS	178.4'	1147.1'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34J1BS	357.8'	2470.9'	NBU 922-34J1CS	33.0'	2478.7'	NBU 922-34K4BS	-124.8'	1175.2'	NBU 922-34J4BS	-278.5'	2499.3'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



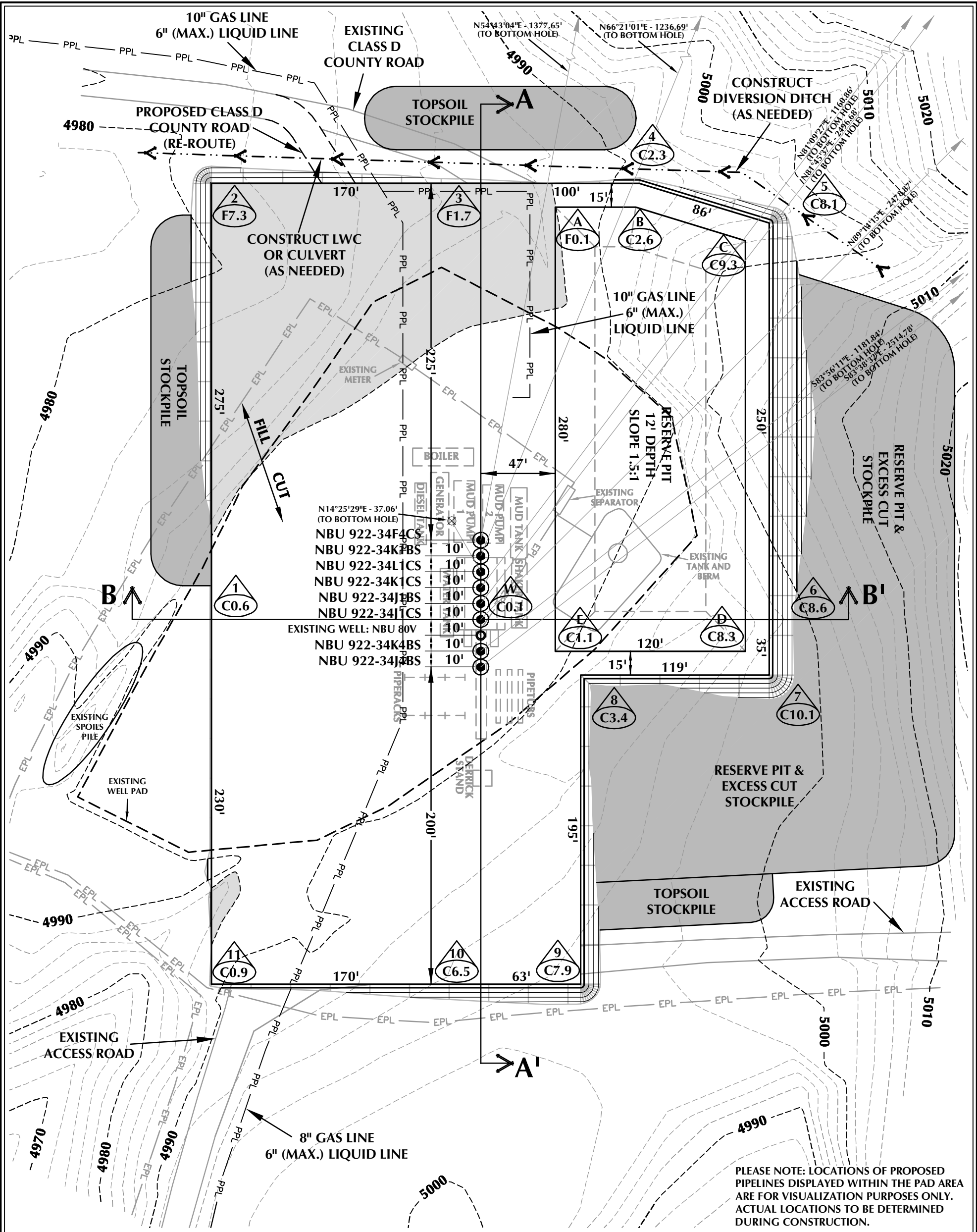
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO: 9 9 OF 20
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'	Date Last Revised: 9-15-12 T.J.R.	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 922-34L DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.6'
FINISHED GRADE ELEVATION = 4988.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.88 ACRES
TOTAL DISTURBANCE AREA = 5.48 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - LOCATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,407 C.Y.
TOTAL FILL FOR WELL PAD = 4,452 C.Y.
TOPSOIL @ 6" DEPTH = 1,770 C.Y.
EXCESS MATERIAL = 8,955 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,670 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 44,820 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

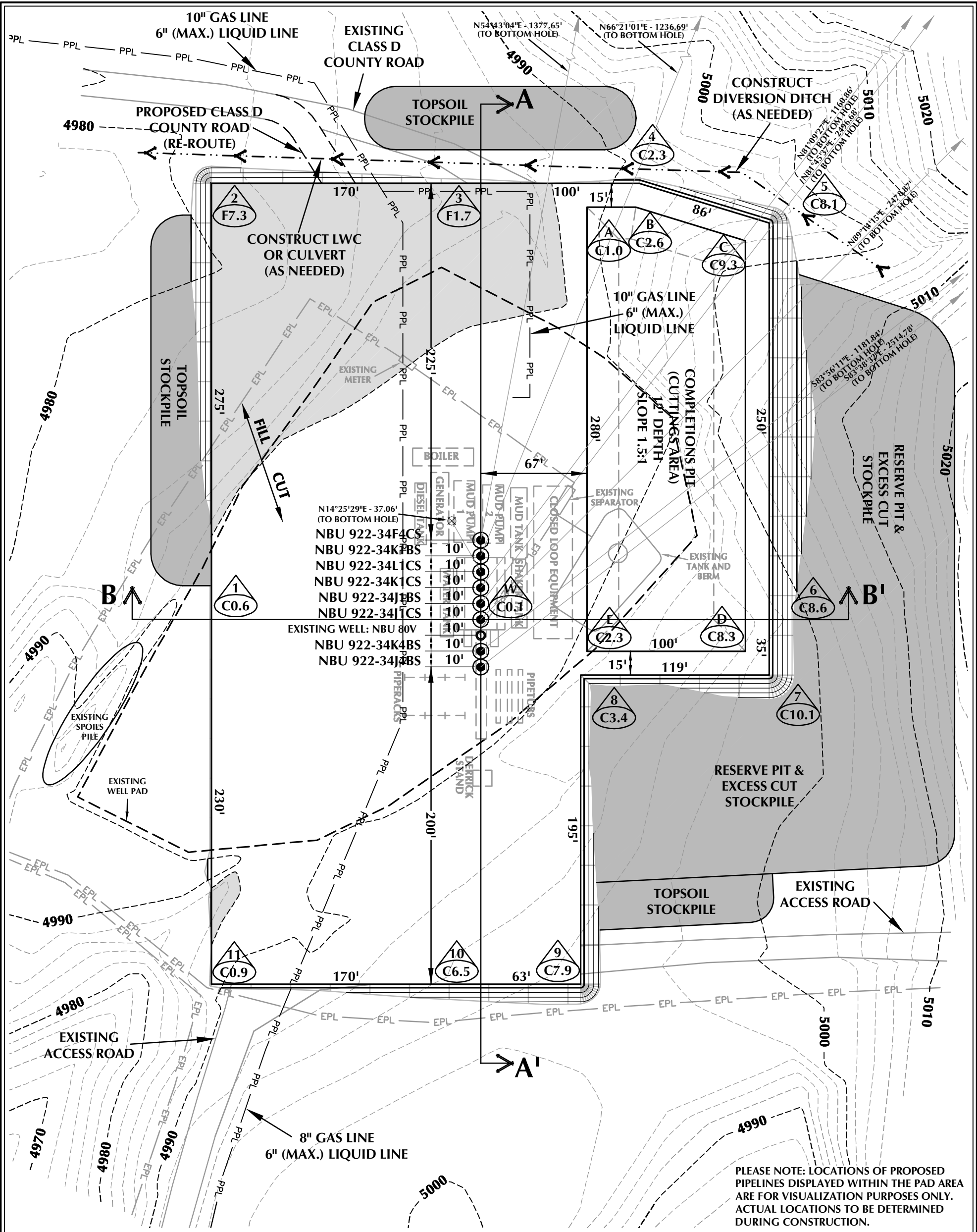


HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:

REVISED: 9/19/12 10 10 OF 20



WELL PAD - NBU 922-34L (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.6'
FINISHED GRADE ELEVATION = 4988.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.88 ACRES
TOTAL DISTURBANCE AREA = 5.48 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - LOCATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,407 C.Y.
TOTAL FILL FOR WELL PAD = 4,452 C.Y.
TOPSOIL @ 6" DEPTH = 1,770 C.Y.
EXCESS MATERIAL = 8,955 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 9,340 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 35,600 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



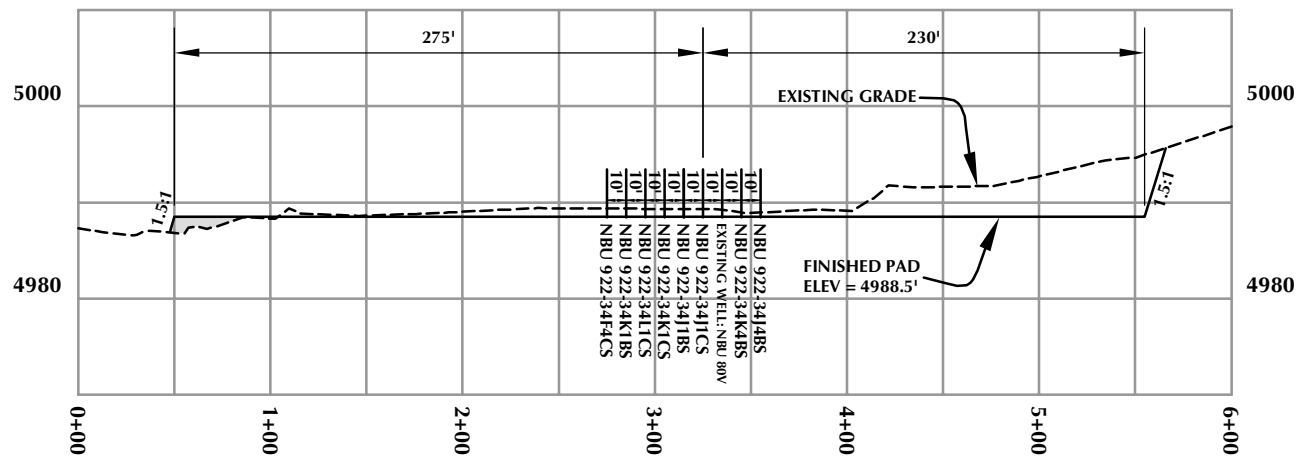
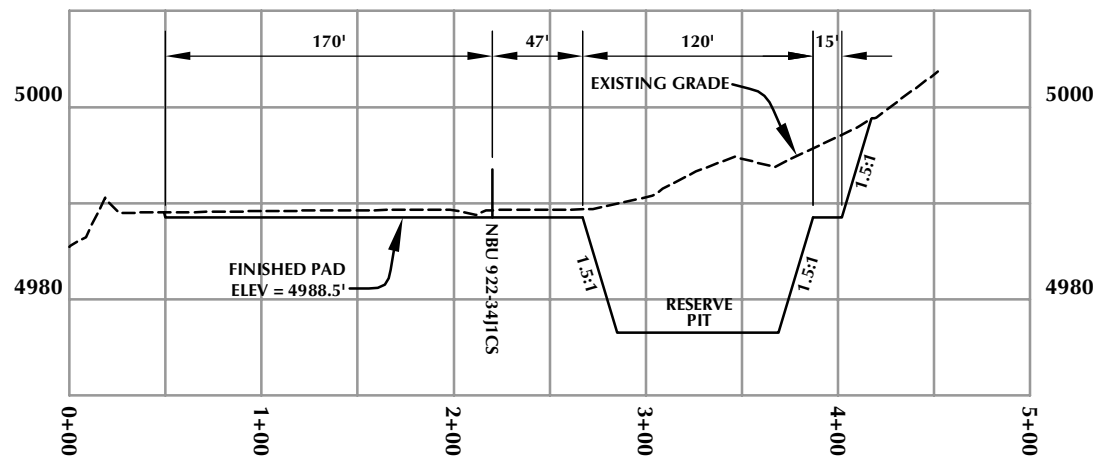
HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 9/19/12 SHEET NO:

REVISED:

10B 10B OF 20

**CROSS SECTION A-A'****CROSS SECTION B-B'**

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L**WELL PAD - CROSS SECTIONS**

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=100'
REVISED:

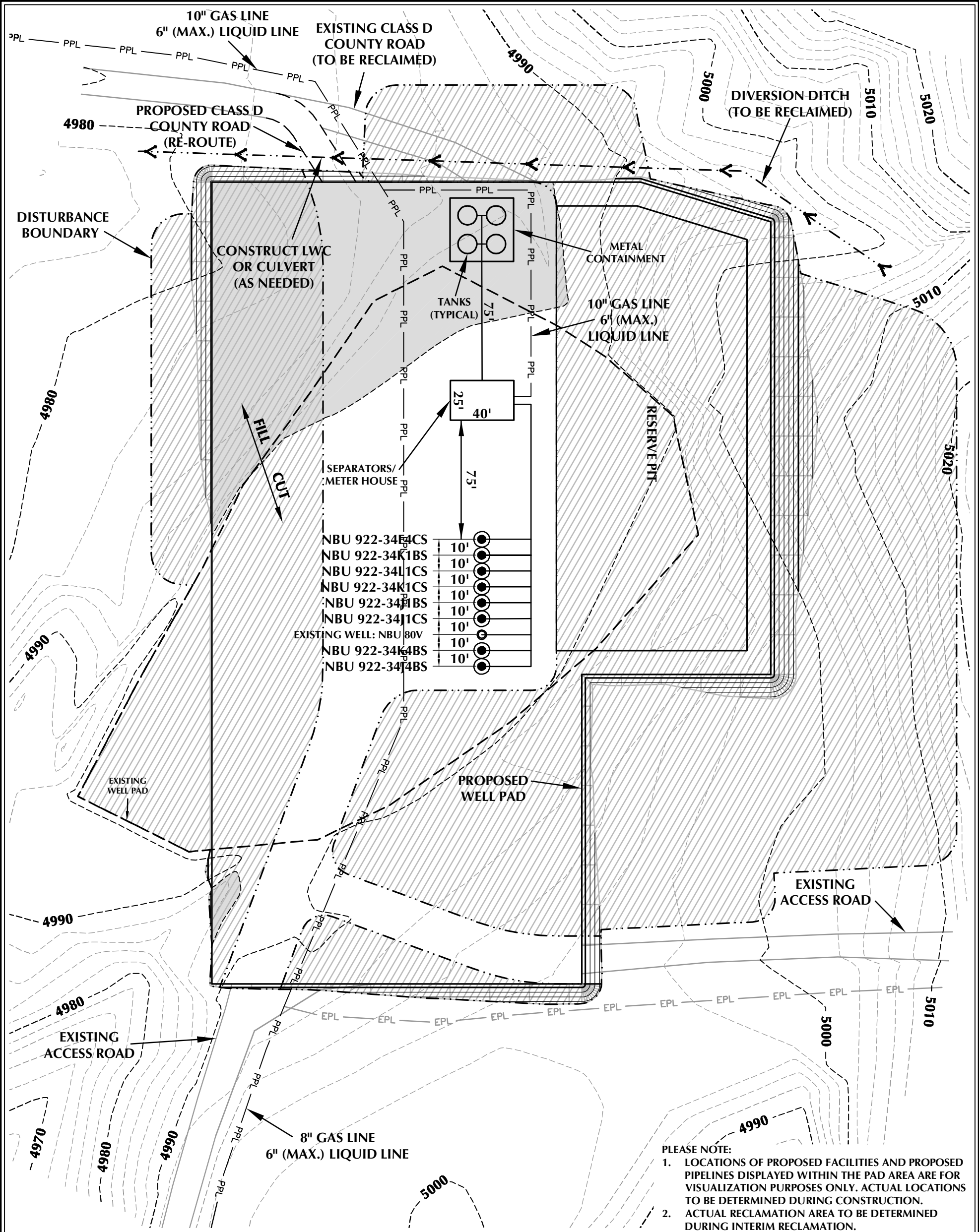
Date: 7/10/12
9/19/12

SHEET NO:

11

11 OF 20

RECEIVED: December 27, 2012



WELL PAD - NBU 922-34L DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 5.66 ACRES (INCLUDING EXISTING)
RECLAMATION AREA = 4.28 ACRES
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.38 ACRES

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - RECLAMATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE
- RECLAMATION AREA



HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO: 12 OF 20
REVISED: 9/19/12

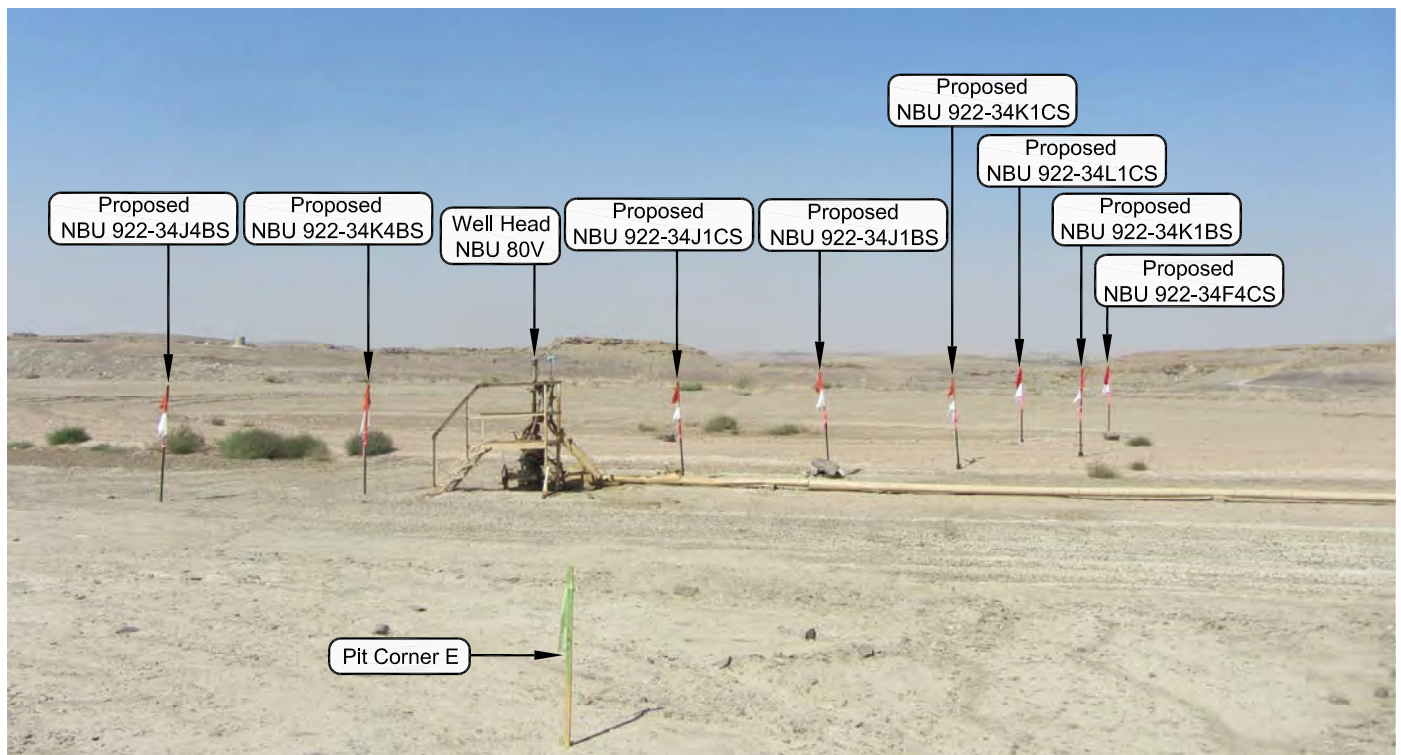


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

LOCATION PHOTOS
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



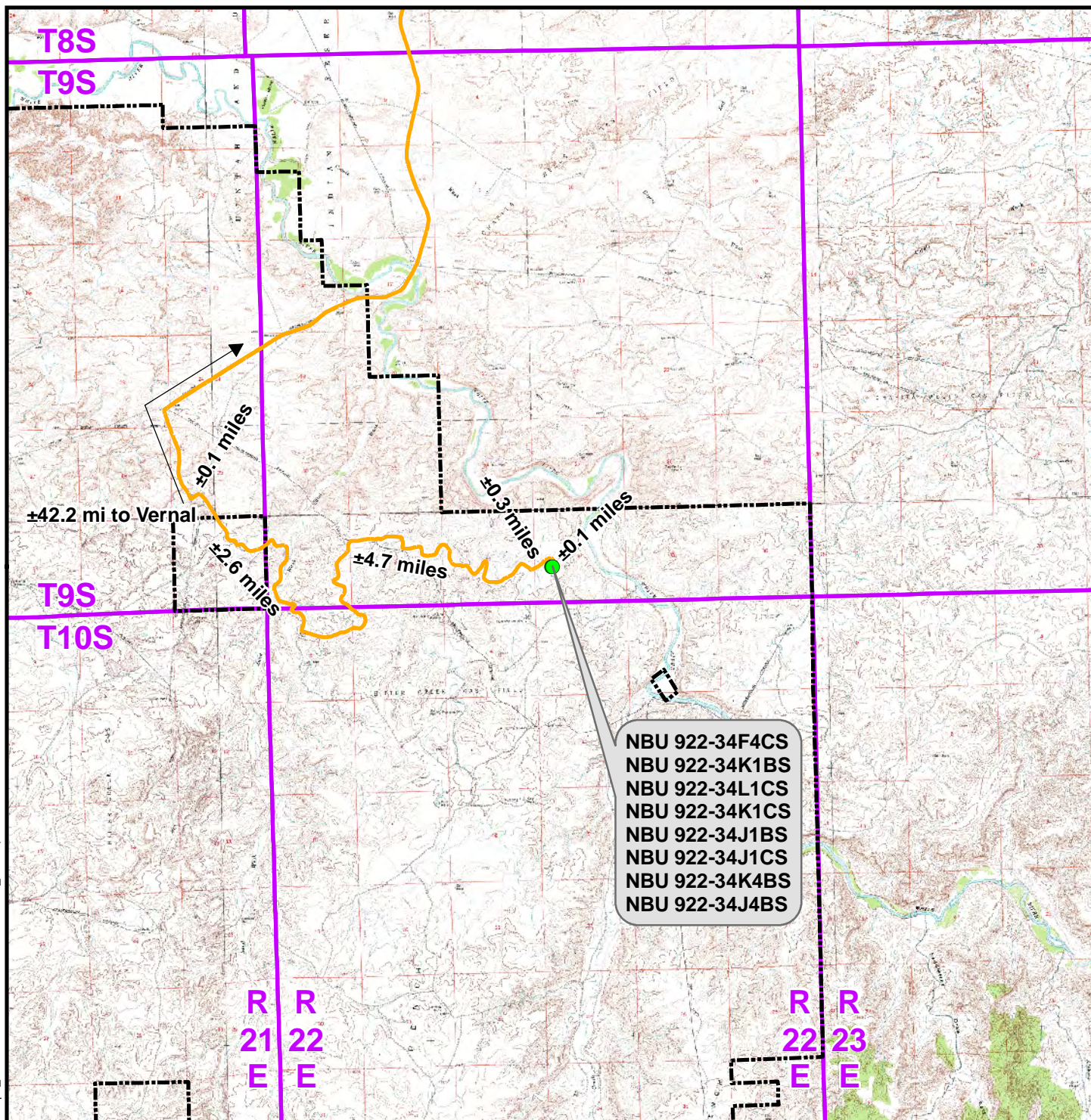
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 6-4-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 13 13 OF 20
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	
Date Last Revised:		

**Legend**

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 922-34L To Unit Boundary: ±3,206ft

WELL PAD - NBU 922-34L**TOPO A**

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**

1099 18th Street
Denver, Colorado 80202

**CONSULTING, LLC**

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1:100,000

DRAWN: TL

REVISED:

NAD83 USP Central

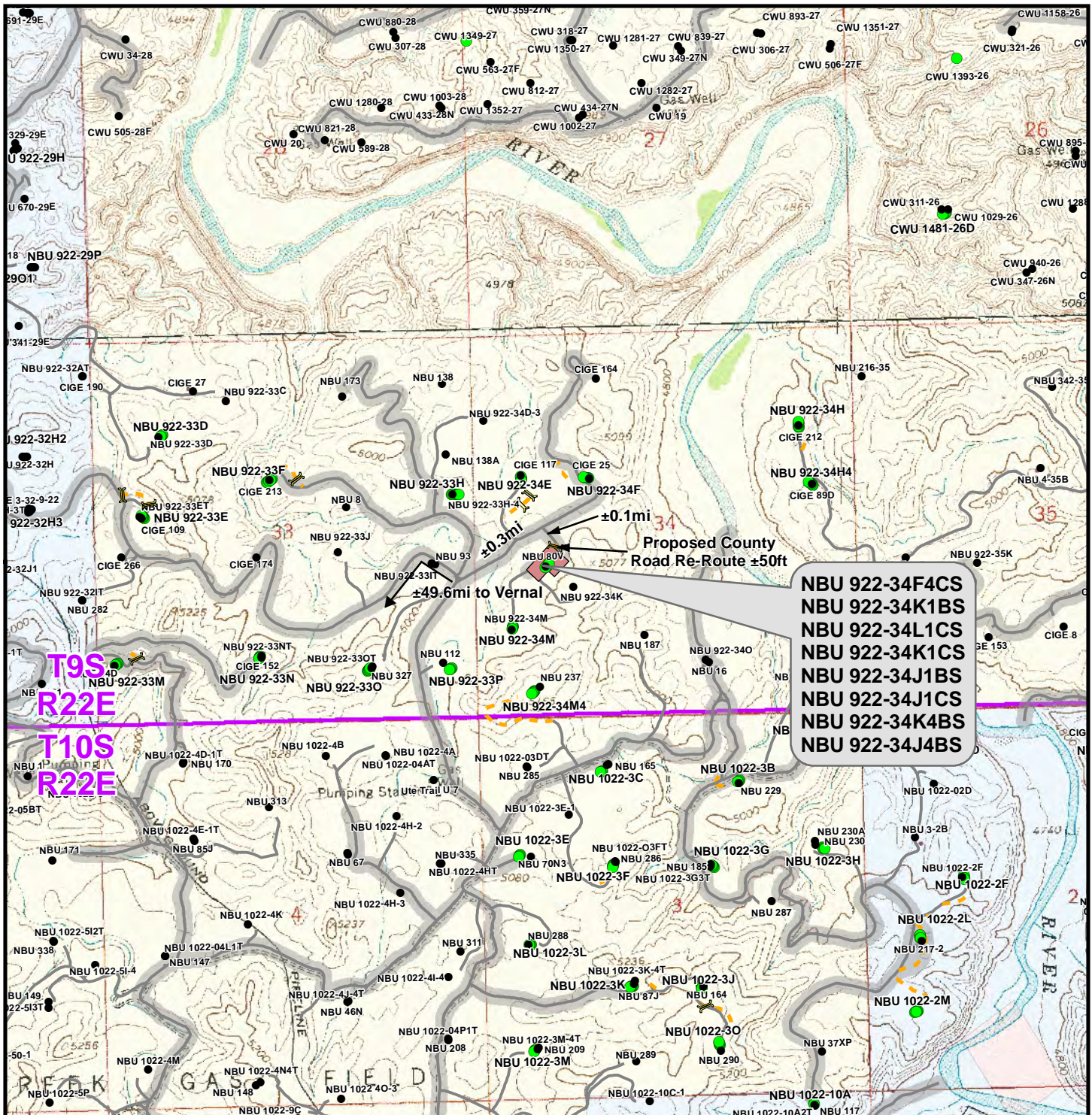
DATE: 5 July 2012

DATE:

SHEET NO:

14

14 OF 20

**WELL PAD - NBU 922-34L****TOPO B**

NBU 922-34F4CS, NBU 922-34K1BS,
 NBU 922-34L1CS, NBU 922-34K1CS,
 NBU 922-34J1BS, NBU 922-34J1CS,
 NBU 922-34K4BS & NBU 922-34J4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
 Gas Onshore L.P.**

1099 18th Street
 Denver, Colorado 80202

**CONSULTING, LLC**

2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

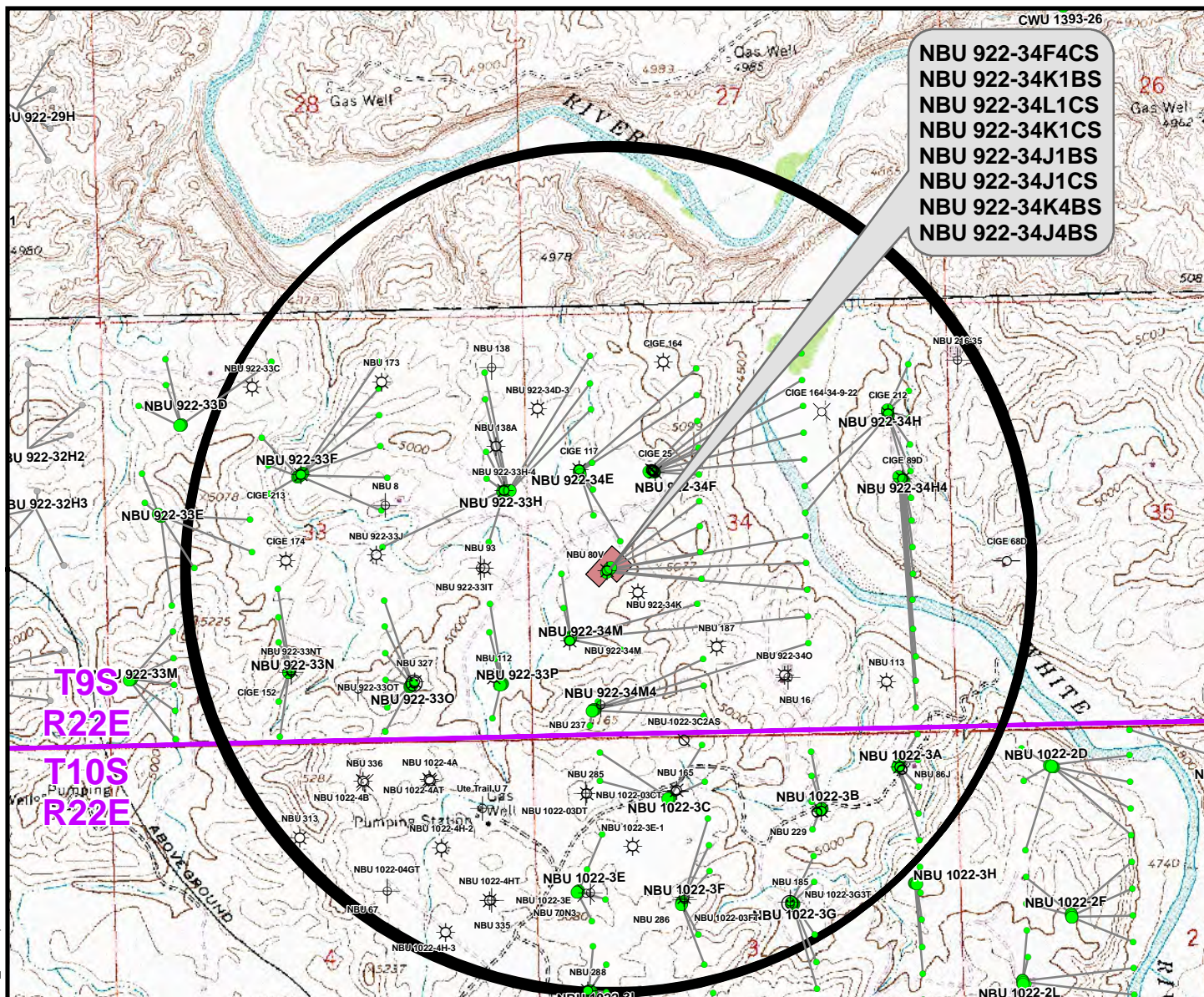
DATE: 5 July 2012

DATE: 18 Sept 2012

SHEET NO:

15

15 OF 20



NBU 922-34F4CS
 NBU 922-34K1BS
 NBU 922-34L1CS
 NBU 922-34K1CS
 NBU 922-34J1BS
 NBU 922-34J1CS
 NBU 922-34K4BS
 NBU 922-34J4BS

Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 922-34F4CS	CIGE 25	661ft
NBU 922-34K1BS	CIGE 25	873ft
NBU 922-34L1CS	NBU 80V	74ft
NBU 922-34K1CS	NBU 922-34K	929ft
NBU 922-34J1BS	CIGE 89D	1,402ft
NBU 922-34J1CS	NBU 922-34O	1,420ft
NBU 922-34K4BS	NBU 922-34K	810ft
NBU 922-34J4BS	NBU 922-34O	1,097ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- ☀ Producing
- ☺ Spudded
- APD Approved
- ⊙ Preliminary Location
- ⊕ Deferred
- ✕ Cancelled
- ⊖ Temporarily Abandoned
- ☀ Active Injector
- ⊖ Location Abandoned
- ⊖ Shut-In
- ⊖ Plugged & Abandoned

WELL PAD - NBU 922-34L

TOPO C

NBU 922-34F4CS, NBU 922-34K1BS,
 NBU 922-34L1CS, NBU 922-34K1CS,
 NBU 922-34J1BS, NBU 922-34J1CS,
 NBU 922-34K4BS & NBU 922-34J4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., Uintah County, Utah

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

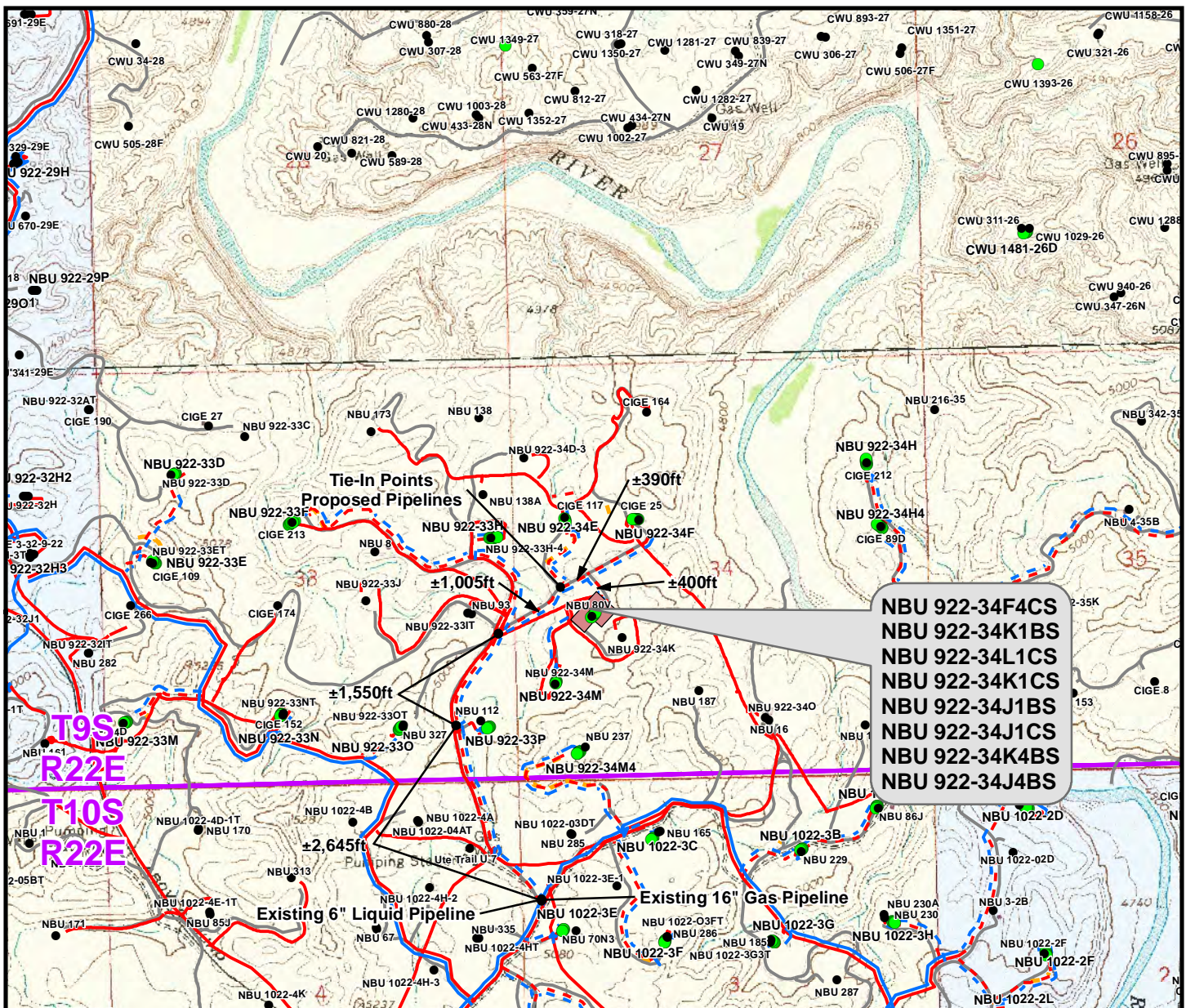
DATE: 18 Sept 2012

DATE:

SHEET NO:

16

16 OF 20



NBU 922-34F4CS
NBU 922-34K1BS
NBU 922-34L1CS
NBU 922-34K1CS
NBU 922-34J1BS
NBU 922-34J1CS
NBU 922-34K4BS
NBU 922-34J4BS

Proposed Liquid Pipeline	Length
=====	=====
Buried 6"(Max.) (Separator to 34M Intersection)	±235ft
Buried 6"(Max.) (34M Intersection to 34F Intersection)	±400ft
Buried 6"(Max.) (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,025ft

Proposed Gas Pipeline	Length
=====	=====
Buried 10" (Meter House to 34M Intersection)	±235ft
Buried 10" (34M Intersection to 34F Intersection)	±400ft
Buried 12" (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,025ft

Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	Bureau of Land Management	State
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	Indian Reservation	Private
Well Pad	- - - Gas Pipeline - Existing				

WELL PAD - NBU 922-34L

TOPO D

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UINAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

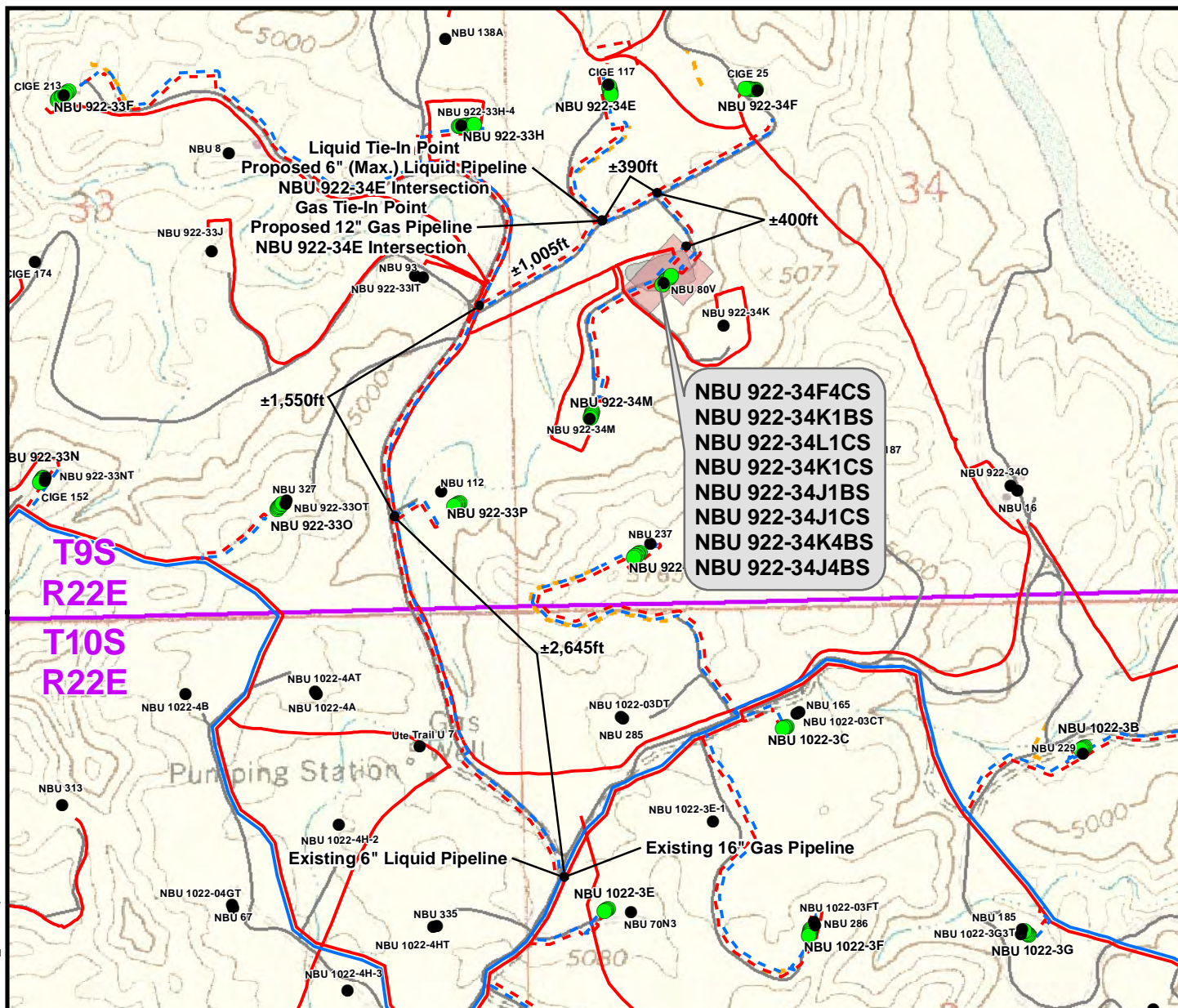
DATE: 18 Sept 2012

DATE:

SHEET NO:

17

17 OF 20



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to 34M Intersection)	±235ft
Buried 6"(Max.) (34M Intersection to 34F Intersection)	±400ft
Buried 6"(Max.) (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,025ft

Proposed Gas Pipeline	Length
Buried 10" (Meter House to 34M Intersection)	±235ft
Buried 10" (34M Intersection to 34F Intersection)	±400ft
Buried 12" (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,025ft

Legend

Well - Proposed	Well Pad - Proposed	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Well - Existing	Well Pad - Existing	Gas Pipeline - To Be Upgraded	Liquid Pipeline - Existing	Road - Existing	Indian Reservation
		Gas Pipeline - Existing			State
					Private

WELL PAD - NBU 922-34L

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-34F4CS, NBU 922-34K1BS,
 NBU 922-34L1CS, NBU 922-34K1CS,
 NBU 922-34J1BS, NBU 922-34J1CS,
 NBU 922-34K4BS & NBU 922-34J4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 1,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

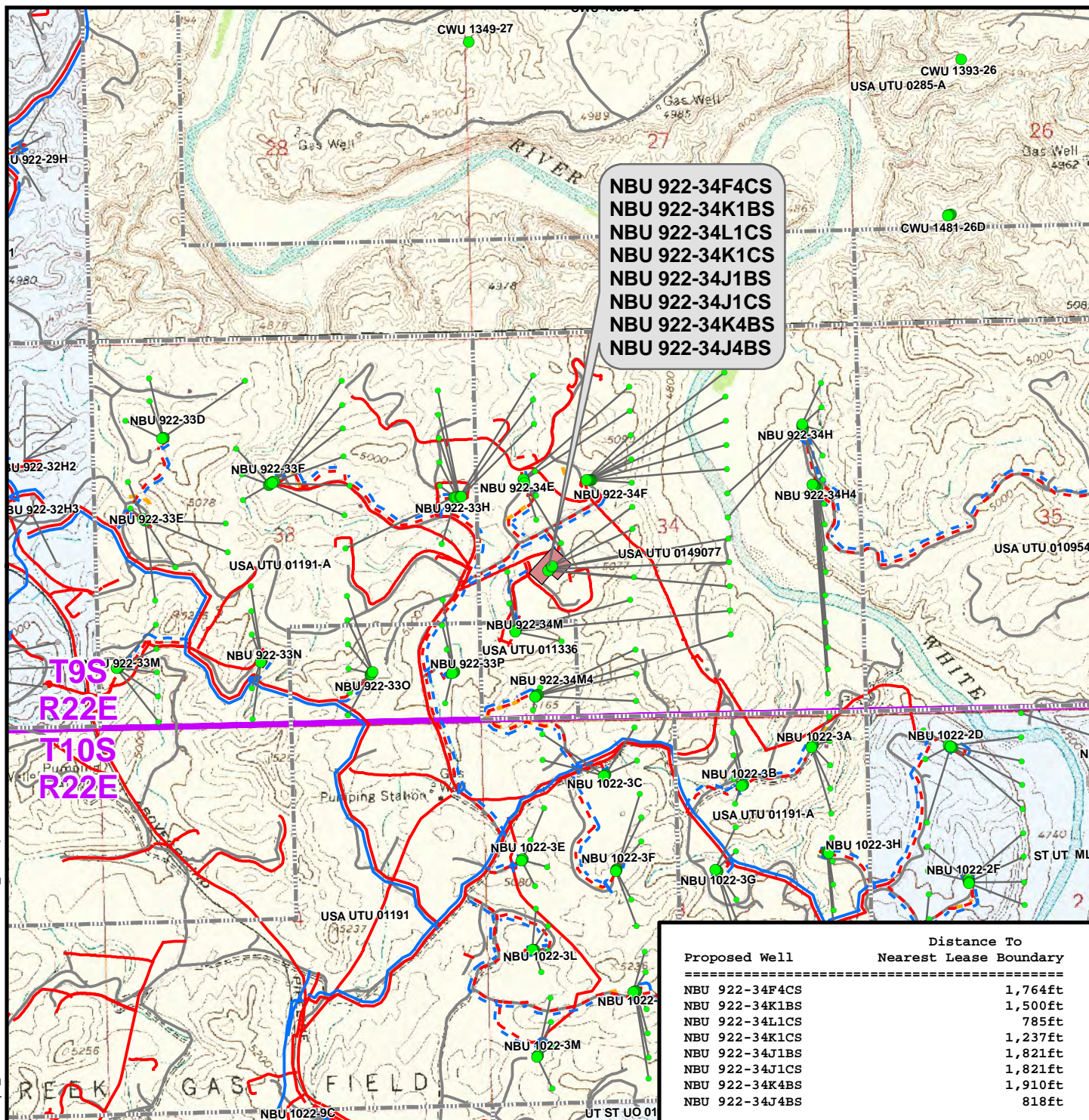
DATE: 5 July 2012

DATE: 18 Sept 2012

SHEET NO:

18

18 OF 20



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▬ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - NBU 922-34L

TOPO E

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

Kerr-McGee Oil &
Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

DATE:

SHEET NO:

19

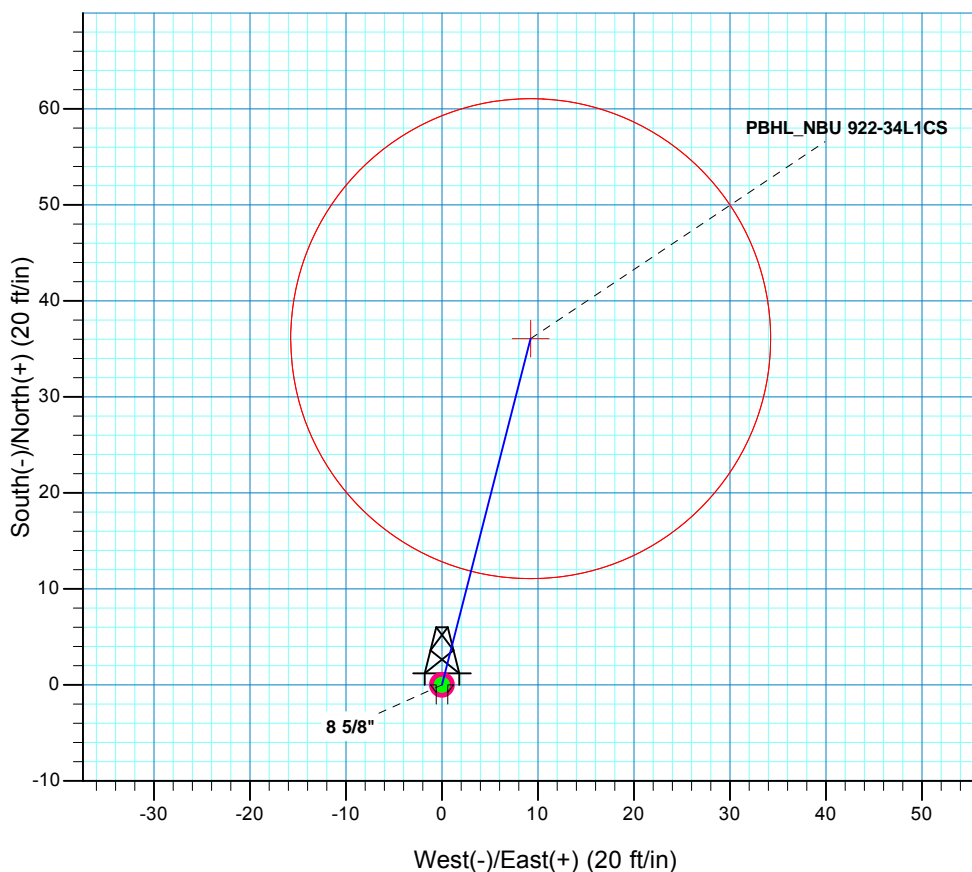
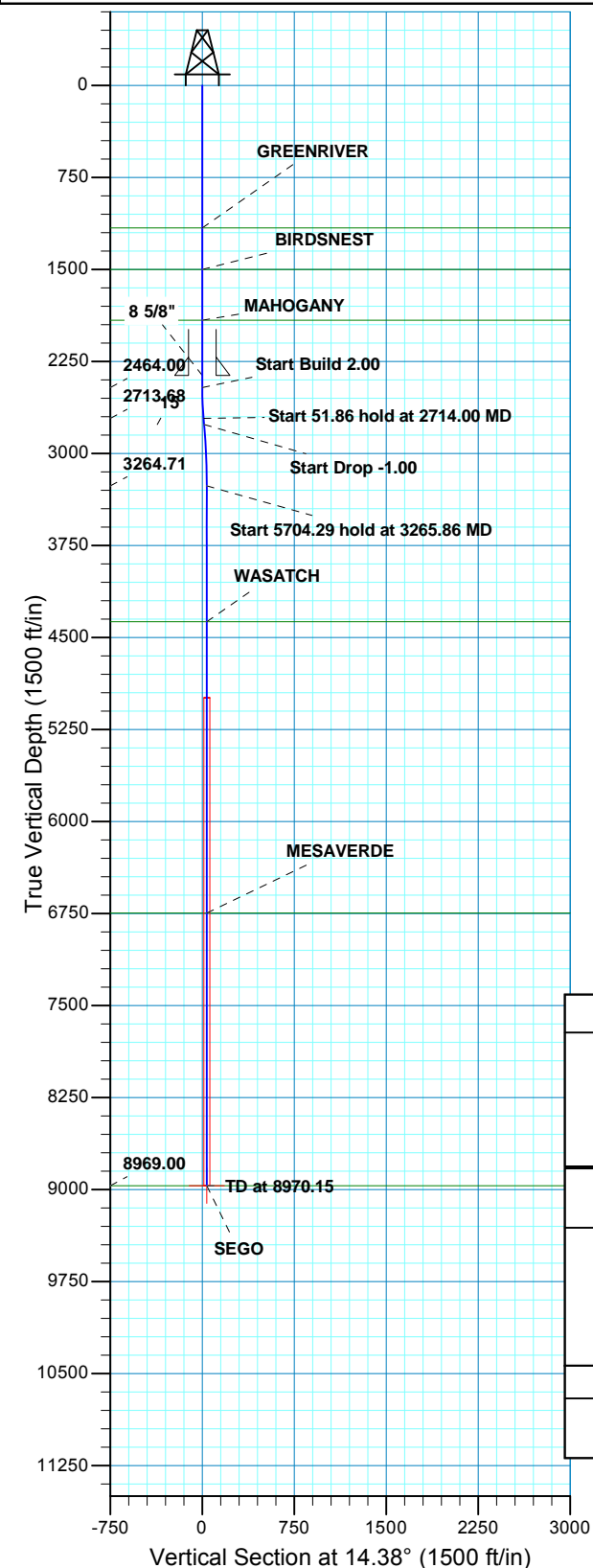
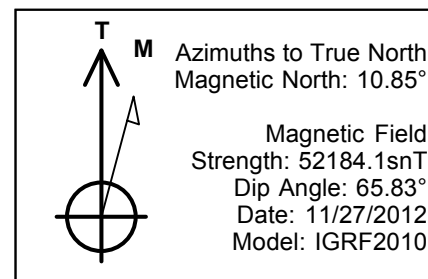
19 OF 20

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-34L
WELLS – NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
Section 34, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly, then southeasterly direction along the third Class D County Road approximately 4.7 miles to a four-way intersection. Proceed through the four-way intersection in a southeasterly direction to a fourth Class D County Road to the northeast. Proceed in a northeasterly direction along the fourth Class D County Road approximately 0.3 miles to a fifth Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the fifth Class D County Road approximately 0.1 miles to the proposed access road to the south. Follow road flags in a southerly direction approximately 50 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.0 miles in a southerly direction.

WELL DETAILS: NBU 922-34L1CS								
GL 4989 & KB 4 @ 4993.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14526628.03	2079816.61	39.990985	-109.431282			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8969.00	36.06	9.25	14526664.24	2079825.22	39.991084	-109.431249	Circle (Radius: 25.00)
- plan hits target center								



SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2464.00	0.00	0.00	2464.00	0.00	0.00	0.00	0.00	0.00	
	2714.00	5.00	14.38	2713.68	10.56	2.71	2.00	14.38	10.90	
	2765.86	5.00	14.38	2765.34	14.94	3.83	0.00	0.00	15.42	
	3265.86	0.00	0.00	3264.71	36.06	9.25	1.00	180.00	37.22	
	8970.15	0.00	0.00	8969.00	36.06	9.25	0.00	0.00	37.22	PBHL_NBU 922-34L1CS
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N							FORMATION TOP DETAILS			
							TVDPath	MDPath	Formation	
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 34 T9S R22E System Datum: Mean Sea Level							1162.00	1162.00	GREENRIVER	
							1500.00	1500.00	BIRDSNEST	
							1914.00	1914.00	MAHOGANY	
							4372.00	4373.15	WASATCH	
							6747.00	6748.15	MESAVERDE	
							8968.99	8970.14	SEGO	
CASING DETAILS										
				TVD	MD	Name	Size			
				2364.00	2364.00	8 5/8"	8.625			

RECEIVED:



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 922-34L PAD

NBU 922-34L1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

27 November, 2012





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-34L PAD, SECTION 34 T9S R22E			
Site Position:		Northing:	14,526,606.18 usft	Latitude: 39.990926
From:	Lat/Long	Easting:	2,079,795.97 usft	Longitude: -109.431357
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 1.01 °

Well	NBU 922-34L1CS, 2071 FSL 1012 FWL			
Well Position	+N/-S	21.49 ft	Northing:	14,526,628.03 usft
	+E/-W	21.01 ft	Easting:	2,079,816.61 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Latitude: 39.990985
				Longitude: -109.431282
				Ground Level: 4,989.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/15/12	10.85	65.83	52,184

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	14.38

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,464.00	0.00	0.00	2,464.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,714.00	5.00	14.38	2,713.68	10.56	2.71	2.00	2.00	0.00	14.38	
2,765.86	5.00	14.38	2,765.34	14.94	3.83	0.00	0.00	0.00	0.00	
3,265.86	0.00	0.00	3,264.71	36.06	9.25	1.00	-1.00	0.00	180.00	
8,970.15	0.00	0.00	8,969.00	36.06	9.25	0.00	0.00	0.00	0.00	PBHL_NBU 922-34L1



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,162.00	0.00	0.00	1,162.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENRIVER									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
BIRDSNEST									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,914.00	0.00	0.00	1,914.00	0.00	0.00	0.00	0.00	0.00	0.00
MAHOGANY									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,364.00	0.00	0.00	2,364.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,464.00	0.00	0.00	2,464.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
2,500.00	0.72	14.38	2,500.00	0.22	0.06	0.23	2.00	2.00	0.00
2,600.00	2.72	14.38	2,599.95	3.13	0.80	3.23	2.00	2.00	0.00
2,700.00	4.72	14.38	2,699.73	9.41	2.41	9.72	2.00	2.00	0.00
2,714.00	5.00	14.38	2,713.68	10.56	2.71	10.90	2.00	2.00	0.00
Start 51.86 hold at 2714.00 MD									
2,765.86	5.00	14.38	2,765.34	14.94	3.83	15.42	0.00	0.00	0.00
Start Drop -1.00									
2,800.00	4.66	14.38	2,799.36	17.72	4.54	18.30	1.00	-1.00	0.00
2,900.00	3.66	14.38	2,899.10	24.75	6.35	25.55	1.00	-1.00	0.00
3,000.00	2.66	14.38	2,998.95	30.08	7.71	31.06	1.00	-1.00	0.00
3,100.00	1.66	14.38	3,098.87	33.73	8.65	34.82	1.00	-1.00	0.00
3,200.00	0.66	14.38	3,198.85	35.69	9.15	36.85	1.00	-1.00	0.00
3,265.86	0.00	0.00	3,264.71	36.06	9.25	37.22	1.00	-1.00	0.00
Start 5704.29 hold at 3265.86 MD									
3,300.00	0.00	0.00	3,298.85	36.06	9.25	37.22	0.00	0.00	0.00
3,400.00	0.00	0.00	3,398.85	36.06	9.25	37.22	0.00	0.00	0.00
3,500.00	0.00	0.00	3,498.85	36.06	9.25	37.22	0.00	0.00	0.00
3,600.00	0.00	0.00	3,598.85	36.06	9.25	37.22	0.00	0.00	0.00
3,700.00	0.00	0.00	3,698.85	36.06	9.25	37.22	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,798.85	36.06	9.25	37.22	0.00	0.00	0.00
3,900.00	0.00	0.00	3,898.85	36.06	9.25	37.22	0.00	0.00	0.00
4,000.00	0.00	0.00	3,998.85	36.06	9.25	37.22	0.00	0.00	0.00
4,100.00	0.00	0.00	4,098.85	36.06	9.25	37.22	0.00	0.00	0.00
4,200.00	0.00	0.00	4,198.85	36.06	9.25	37.22	0.00	0.00	0.00
4,300.00	0.00	0.00	4,298.85	36.06	9.25	37.22	0.00	0.00	0.00
4,373.15	0.00	0.00	4,372.00	36.06	9.25	37.22	0.00	0.00	0.00
WASATCH									
4,400.00	0.00	0.00	4,398.85	36.06	9.25	37.22	0.00	0.00	0.00
4,500.00	0.00	0.00	4,498.85	36.06	9.25	37.22	0.00	0.00	0.00
4,600.00	0.00	0.00	4,598.85	36.06	9.25	37.22	0.00	0.00	0.00
4,700.00	0.00	0.00	4,698.85	36.06	9.25	37.22	0.00	0.00	0.00
4,800.00	0.00	0.00	4,798.85	36.06	9.25	37.22	0.00	0.00	0.00
4,900.00	0.00	0.00	4,898.85	36.06	9.25	37.22	0.00	0.00	0.00
5,000.00	0.00	0.00	4,998.85	36.06	9.25	37.22	0.00	0.00	0.00
5,100.00	0.00	0.00	5,098.85	36.06	9.25	37.22	0.00	0.00	0.00
5,200.00	0.00	0.00	5,198.85	36.06	9.25	37.22	0.00	0.00	0.00
5,300.00	0.00	0.00	5,298.85	36.06	9.25	37.22	0.00	0.00	0.00
5,400.00	0.00	0.00	5,398.85	36.06	9.25	37.22	0.00	0.00	0.00
5,500.00	0.00	0.00	5,498.85	36.06	9.25	37.22	0.00	0.00	0.00
5,600.00	0.00	0.00	5,598.85	36.06	9.25	37.22	0.00	0.00	0.00
5,700.00	0.00	0.00	5,698.85	36.06	9.25	37.22	0.00	0.00	0.00
5,800.00	0.00	0.00	5,798.85	36.06	9.25	37.22	0.00	0.00	0.00
5,900.00	0.00	0.00	5,898.85	36.06	9.25	37.22	0.00	0.00	0.00
6,000.00	0.00	0.00	5,998.85	36.06	9.25	37.22	0.00	0.00	0.00
6,100.00	0.00	0.00	6,098.85	36.06	9.25	37.22	0.00	0.00	0.00
6,200.00	0.00	0.00	6,198.85	36.06	9.25	37.22	0.00	0.00	0.00
6,300.00	0.00	0.00	6,298.85	36.06	9.25	37.22	0.00	0.00	0.00
6,400.00	0.00	0.00	6,398.85	36.06	9.25	37.22	0.00	0.00	0.00
6,500.00	0.00	0.00	6,498.85	36.06	9.25	37.22	0.00	0.00	0.00
6,600.00	0.00	0.00	6,598.85	36.06	9.25	37.22	0.00	0.00	0.00
6,700.00	0.00	0.00	6,698.85	36.06	9.25	37.22	0.00	0.00	0.00
6,748.15	0.00	0.00	6,747.00	36.06	9.25	37.22	0.00	0.00	0.00
MESAVERDE									
6,800.00	0.00	0.00	6,798.85	36.06	9.25	37.22	0.00	0.00	0.00
6,900.00	0.00	0.00	6,898.85	36.06	9.25	37.22	0.00	0.00	0.00
7,000.00	0.00	0.00	6,998.85	36.06	9.25	37.22	0.00	0.00	0.00
7,100.00	0.00	0.00	7,098.85	36.06	9.25	37.22	0.00	0.00	0.00
7,200.00	0.00	0.00	7,198.85	36.06	9.25	37.22	0.00	0.00	0.00
7,300.00	0.00	0.00	7,298.85	36.06	9.25	37.22	0.00	0.00	0.00
7,400.00	0.00	0.00	7,398.85	36.06	9.25	37.22	0.00	0.00	0.00
7,500.00	0.00	0.00	7,498.85	36.06	9.25	37.22	0.00	0.00	0.00
7,600.00	0.00	0.00	7,598.85	36.06	9.25	37.22	0.00	0.00	0.00
7,700.00	0.00	0.00	7,698.85	36.06	9.25	37.22	0.00	0.00	0.00
7,800.00	0.00	0.00	7,798.85	36.06	9.25	37.22	0.00	0.00	0.00
7,900.00	0.00	0.00	7,898.85	36.06	9.25	37.22	0.00	0.00	0.00
8,000.00	0.00	0.00	7,998.85	36.06	9.25	37.22	0.00	0.00	0.00
8,100.00	0.00	0.00	8,098.85	36.06	9.25	37.22	0.00	0.00	0.00
8,200.00	0.00	0.00	8,198.85	36.06	9.25	37.22	0.00	0.00	0.00
8,300.00	0.00	0.00	8,298.85	36.06	9.25	37.22	0.00	0.00	0.00
8,400.00	0.00	0.00	8,398.85	36.06	9.25	37.22	0.00	0.00	0.00
8,500.00	0.00	0.00	8,498.85	36.06	9.25	37.22	0.00	0.00	0.00
8,600.00	0.00	0.00	8,598.85	36.06	9.25	37.22	0.00	0.00	0.00
8,700.00	0.00	0.00	8,698.85	36.06	9.25	37.22	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4989 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,798.85	36.06	9.25	37.22	0.00	0.00	0.00
8,900.00	0.00	0.00	8,898.85	36.06	9.25	37.22	0.00	0.00	0.00
8,970.14	0.00	0.00	8,968.99	36.06	9.25	37.22	0.00	0.00	0.00
SEGO									
8,970.15	0.00	0.00	8,969.00	36.06	9.25	37.22	0.00	0.00	0.00
TD at 8970.15 - PBHL_NBU 922-34L1CS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34L1CS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,969.00	36.06	9.25	14,526,664.25	2,079,825.21	39.991084	-109.431249

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,364.00	2,364.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,162.00	1,162.00	GREENRIVER				
1,500.00	1,500.00	BIRDSNEST				
1,914.00	1,914.00	MAHOGANY				
4,373.15	4,372.00	WASATCH				
6,748.15	6,747.00	MESAVERDE				
8,970.14	8,968.99	SEGO		0.00		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,464.00	2,464.00	0.00	0.00	Start Build 2.00
2,714.00	2,713.68	10.56	2.71	Start 51.86 hold at 2714.00 MD
2,765.86	2,765.34	14.94	3.83	Start Drop -1.00
3,265.86	3,264.71	36.06	9.25	Start 5704.29 hold at 3265.86 MD
8,970.15	8,969.00	36.06	9.25	TD at 8970.15

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
 NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
 NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
 1 of 6

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-34L PAD

<u>API #</u>	<u>NBU 922-34F4CS</u>	
	Surface: 2085 FSL / 1026 FWL	NWSW
	BHL: 2408 FNL / 2151 FWL	SENE
<u>API #</u>	<u>NBU 922-34J1BS</u>	
	Surface: 2057 FSL / 998 FWL	NWSW
	BHL: 2414 FSL / 1821 FEL	NWSE
<u>API #</u>	<u>NBU 922-34J1CS</u>	
	Surface: 2050 FSL / 991 FWL	NWSW
	BHL: 2082 FSL / 1821 FEL	NWSE
<u>API #</u>	<u>NBU 922-34J4BS</u>	
	Surface: 2028 FSL / 970 FWL	NWSW
	BHL: 1749 FSL / 1822 FEL	NWSE
<u>API #</u>	<u>NBU 922-34K1BS</u>	
	Surface: 2078 FSL / 1019 FWL	NWSW
	BHL: 2574 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34K1CS</u>	
	Surface: 2064 FSL / 1005 FWL	NWSW
	BHL: 2242 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34K4BS</u>	
	Surface: 2035 FSL / 977 FWL	NWSW
	BHL: 1910 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34L1CS</u>	
	Surface: 2071 FSL / 1012 FWL	NWSW
	BHL: 2107 FSL / 1021 FWL	NWSW

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
2 of 6

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

±50' (0.01 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, from the edge of pad to the T-intersection in NW/4 SW/4. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 80V, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on of pad November 20, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ±6,225' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±235' (0.04 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
 NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
 NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations

3 of 6

- ±400' (0.1 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed buried 12" gas gathering pipeline at the NBU 922-34F Pad intersection. This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit A, Line 13.
- ±1,395' (0.3 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 12" buried gas gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 16" gas gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit A, Lines 12 and 11.

The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. Listed below is the gas gathering pipeline distances:

- ±4,195' (0.8 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU 01191-A and UTU 01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 16" buried gas pipeline in 1022-3 at the NBU 1022-3E Pad intersection. Please refer to Exhibit A- Line 10.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ±6,225' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±235' (0.04 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±400' (0.1 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-34F Pad intersection. This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit B, Line 13.
- ±1,395' (0.3 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit B, Lines 12 and 11.
- ±4,195' (0.8 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU 01191-A and UTU 01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 6" buried liquid pipeline in 1022-3 at the NBU 1022-3E Pad intersection. This pipeline will be used concurrently with the NBU 922-33F, NBU 922-33H, NBU 922-34E, NBU 922-34F, NBU 922-34M and NBU 922-33P Pads. Please refer to Exhibit B, Line 10.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
4 of 6

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
5 of 6

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on September 20, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-178.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-845.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
6 of 6

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Senior Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

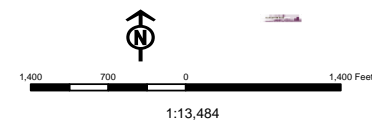
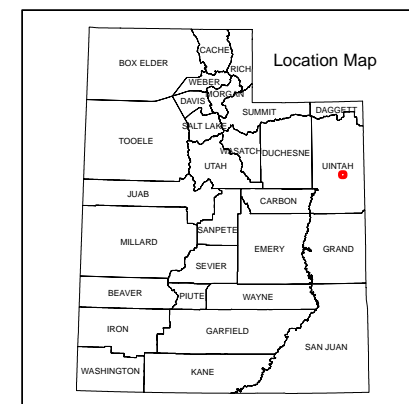
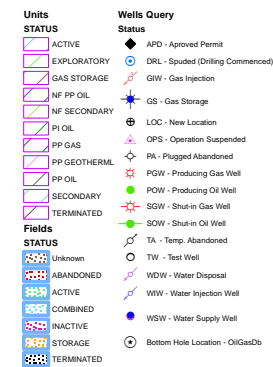
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

November 20, 2012
Date

Map Produced by Diana Mason



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

January 15, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-17C PAD

43-047-53476	NBU 921-17C4CS	Sec 17 T09S R21E 0629 FNL 2001 FWL
	BHL	Sec 17 T09S R21E 1074 FNL 2155 FWL

43-047-53483	NBU 921-17F1BS	Sec 17 T09S R21E 0634 FNL 1993 FWL
	BHL	Sec 17 T09S R21E 1405 FNL 2154 FWL

NBU 921-17D PAD

43-047-53477	NBU 921-17E4BS	Sec 17 T09S R21E 0953 FNL 0416 FWL
	BHL	Sec 17 T09S R21E 2231 FNL 0825 FWL

43-047-53478	NBU 921-17E1CS	Sec 17 T09S R21E 0959 FNL 0424 FWL
	BHL	Sec 17 T09S R21E 1901 FNL 0825 FWL

43-047-53479	NBU 921-17E1BS	Sec 17 T09S R21E 0965 FNL 0432 FWL
	BHL	Sec 17 T09S R21E 1570 FNL 0826 FWL

43-047-53480	NBU 921-17D4BS	Sec 17 T09S R21E 0982 FNL 0457 FWL
	BHL	Sec 17 T09S R21E 0909 FNL 0827 FWL

43-047-53481	NBU 921-17D1CS	Sec 17 T09S R21E 0976 FNL 0449 FWL
	BHL	Sec 17 T09S R21E 0578 FNL 0827 FWL

43-047-53482	NBU 921-17D1BS	Sec 17 T09S R21E 0970 FNL 0440 FWL
	BHL	Sec 17 T09S R21E 0148 FNL 0834 FWL

NBU 922-34F PAD

43-047-53484	NBU 922-34G1CS	Sec 34 T09S R22E 2030 FNL 1588 FWL
	BHL	Sec 34 T09S R22E 1913 FNL 1820 FEL

43-047-53485	NBU 922-34G1BS	Sec 34 T09S R22E 2029 FNL 1578 FWL
	BHL	Sec 34 T09S R22E 1580 FNL 1820 FEL

43-047-53486	NBU 922-34F4BS	Sec 34 T09S R22E 2032 FNL 1598 FWL
	BHL	Sec 34 T09S R22E 2076 FNL 2151 FWL

RECEIVED: January 15, 2013

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53492	NBU 922-34B1CS	Sec 34 T09S R22E 2023 FNL 1539 FWL
	BHL	Sec 34 T09S R22E 0581 FNL 1820 FEL
43-047-53493	NBU 922-34B4BS	Sec 34 T09S R22E 2024 FNL 1549 FWL
	BHL	Sec 34 T09S R22E 0914 FNL 1820 FEL
43-047-53498	NBU 922-34B4CS	Sec 34 T09S R22E 2027 FNL 1568 FWL
	BHL	Sec 34 T09S R22E 1247 FNL 1820 FEL
43-047-53500	NBU 922-34F1BS	Sec 34 T09S R22E 2021 FNL 1529 FWL
	BHL	Sec 34 T09S R22E 1412 FNL 2151 FWL
43-047-53505	NBU 922-34F1CS	Sec 34 T09S R22E 2026 FNL 1559 FWL
	BHL	Sec 34 T09S R22E 1744 FNL 2151 FWL
NBU 922-34E PAD		
43-047-53487	NBU 922-34C4BS	Sec 34 T09S R22E 1991 FNL 0662 FWL
	BHL	Sec 34 T09S R22E 0747 FNL 2150 FWL
43-047-53488	NBU 922-34E1CS	Sec 34 T09S R22E 2001 FNL 0663 FWL
	BHL	Sec 34 T09S R22E 1896 FNL 0825 FWL
43-047-53489	NBU 922-34E4BS	Sec 34 T09S R22E 2021 FNL 0666 FWL
	BHL	Sec 34 T09S R22E 2228 FNL 0825 FWL
43-047-53490	NBU 922-34E4CS	Sec 34 T09S R22E 2040 FNL 0670 FWL
	BHL	Sec 34 T09S R22E 2559 FNL 0825 FWL
43-047-53491	NBU 922-34L1AS	Sec 34 T09S R22E 2030 FNL 0668 FWL
	BHL	Sec 34 T09S R22E 2406 FSL 1156 FWL
NBU 922-34L PAD		
43-047-53497	NBU 922-34L1CS	Sec 34 T09S R22E 2071 FSL 1012 FWL
	BHL	Sec 34 T09S R22E 2107 FSL 1021 FWL
43-047-53499	NBU 922-34K4BS	Sec 34 T09S R22E 2035 FSL 0977 FWL
	BHL	Sec 34 T09S R22E 1910 FSL 2152 FWL
43-047-53501	NBU 922-34J1BS	Sec 34 T09S R22E 2057 FSL 0998 FWL
	BHL	Sec 34 T09S R22E 2414 FSL 1821 FEL
43-047-53502	NBU 922-34J4BS	Sec 34 T09S R22E 2028 FSL 0970 FWL
	BHL	Sec 34 T09S R22E 1749 FSL 1822 FEL
43-047-53503	NBU 922-34K1CS	Sec 34 T09S R22E 2064 FSL 1005 FWL
	BHL	Sec 34 T09S R22E 2242 FSL 2152 FWL
43-047-53504	NBU 922-34K1BS	Sec 34 T09S R22E 2078 FSL 1019 FWL
	BHL	Sec 34 T09S R22E 2574 FSL 2152 FWL
43-047-53506	NBU 922-34F4CS	Sec 34 T09S R22E 2085 FSL 1026 FWL
	BHL	Sec 34 T09S R22E 2408 FNL 2151 FWL
43-047-53507	NBU 922-34J1CS	Sec 34 T09S R22E 2050 FSL 0991 FWL
	BHL	Sec 34 T09S R22E 2082 FSL 1821 FEL
NBU 922-34M PAD		
43-047-53508	NBU 922-34J4CS	Sec 34 T09S R22E 1203 FSL 0497 FWL
	BHL	Sec 34 T09S R22E 1416 FSL 1822 FEL
43-047-53509	NBU 922-34K4CS	Sec 34 T09S R22E 1213 FSL 0499 FWL
	BHL	Sec 34 T09S R22E 1597 FSL 2094 FWL
43-047-53510	NBU 922-34L2DS	Sec 34 T09S R22E 1232 FSL 0505 FWL
	BHL	Sec 34 T09S R22E 2021 FSL 0407 FWL
43-047-53511	NBU 922-34L3DS	Sec 34 T09S R22E 1222 FSL 0502 FWL
	BHL	Sec 34 T09S R22E 1587 FSL 0428 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53512	NBU 922-34M1BS	Sec 34 T09S R22E 1194 FSL 0493 FWL
	BHL	Sec 34 T09S R22E 1054 FSL 1135 FWL
NBU 922-34M4 PAD		
43-047-53513	NBU 922-34M4BS	Sec 34 T09S R22E 0325 FSL 0787 FWL
	BHL	Sec 34 T09S R22E 0415 FSL 0826 FWL
43-047-53514	NBU 922-34M4CS	Sec 34 T09S R22E 0295 FSL 0747 FWL
	BHL	Sec 34 T09S R22E 0115 FSL 0716 FWL
43-047-53515	NBU 922-34N1CS	Sec 34 T09S R22E 0319 FSL 0779 FWL
	BHL	Sec 34 T09S R22E 0913 FSL 2153 FWL
43-047-53516	NBU 922-34N4BS	Sec 34 T09S R22E 0307 FSL 0763 FWL
	BHL	Sec 34 T09S R22E 0581 FSL 2153 FWL
43-047-53517	NBU 922-34N4CS	Sec 34 T09S R22E 0301 FSL 0755 FWL
	BHL	Sec 34 T09S R22E 0201 FSL 2140 FWL
43-047-53518	NBU 922-34O1BS	Sec 34 T09S R22E 0313 FSL 0771 FWL
	BHL	Sec 34 T09S R22E 1083 FSL 1822 FEL
NBU 921-17G PAD		
43-047-53519	NBU 921-17B4CS	Sec 17 T09S R21E 1527 FNL 2258 FEL
	BHL	Sec 17 T09S R21E 1239 FNL 1823 FEL
43-047-53520	NBU 921-17F1CS	Sec 17 T09S R21E 1529 FNL 2288 FEL
	BHL	Sec 17 T09S R21E 1736 FNL 2152 FWL
43-047-53521	NBU 921-17F4BS	Sec 17 T09S R21E 1528 FNL 2278 FEL
	BHL	Sec 17 T09S R21E 2066 FNL 2151 FWL
43-047-53523	NBU 921-17G4BS	Sec 17 T09S R21E 1528 FNL 2268 FEL
	BHL	Sec 17 T09S R21E 2106 FNL 1832 FEL
NBU 921-17H PAD		
43-047-53522	NBU 921-17A4BS	Sec 17 T09S R21E 2074 FNL 0557 FEL
	BHL	Sec 17 T09S R21E 0744 FNL 0496 FEL
43-047-53524	NBU 921-17A4CS	Sec 17 T09S R21E 2076 FNL 0547 FEL
	BHL	Sec 17 T09S R21E 1074 FNL 0496 FEL
43-047-53525	NBU 921-17H1BS	Sec 17 T09S R21E 2078 FNL 0538 FEL
	BHL	Sec 17 T09S R21E 1405 FNL 0496 FEL
43-047-53526	NBU 921-17H1CS	Sec 17 T09S R21E 2080 FNL 0528 FEL
	BHL	Sec 17 T09S R21E 1736 FNL 0495 FEL
43-047-53527	NBU 921-17H4CS	Sec 17 T09S R21E 2082 FNL 0518 FEL
	BHL	Sec 17 T09S R21E 2495 FNL 0489 FEL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
 DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
 ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
 Date: 2013.01.15 14:15:41 -0700

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:1-15-13

RECEIVED: January 15, 2013

API	Well Name	Surface Location			
43-047-53476	NBU 921-17C4CS	Sec 17	T09S	R21E	0629 FNL 2001 FWL
43-047-53477	NBU 921-17E4BS	Sec 17	T09S	R21E	0953 FNL 0416 FWL
43-047-53478	NBU 921-17E1CS	Sec 17	T09S	R21E	0959 FNL 0424 FWL
43-047-53479	NBU 921-17E1BS	Sec 17	T09S	R21E	0965 FNL 0432 FWL
43-047-53480	NBU 921-17D4BS	Sec 17	T09S	R21E	0982 FNL 0457 FWL
43-047-53481	NBU 921-17D1CS	Sec 17	T09S	R21E	0976 FNL 0449 FWL
43-047-53482	NBU 921-17D1BS	Sec 17	T09S	R21E	0970 FNL 0440 FWL
43-047-53483	NBU 921-17F1BS	Sec 17	T09S	R21E	0634 FNL 1993 FWL
43-047-53484	NBU 922-34G1CS	Sec 34	T09S	R22E	2030 FNL 1588 FWL
43-047-53485	NBU 922-34G1BS	Sec 34	T09S	R22E	2029 FNL 1578 FWL
43-047-53486	NBU 922-34F4BS	Sec 34	T09S	R22E	2032 FNL 1598 FWL
43-047-53487	NBU 922-34C4BS	Sec 34	T09S	R22E	1991 FNL 0662 FWL
43-047-53488	NBU 922-34E1CS	Sec 34	T09S	R22E	2001 FNL 0663 FWL
43-047-53489	NBU 922-34E4BS	Sec 34	T09S	R22E	2021 FNL 0666 FWL
43-047-53490	NBU 922-34E4CS	Sec 34	T09S	R22E	2040 FNL 0670 FWL
43-047-53491	NBU 922-34L1AS	Sec 34	T09S	R22E	2030 FNL 0668 FWL
43-047-53492	NBU 922-34B1CS	Sec 34	T09S	R22E	2023 FNL 1539 FWL
43-047-53493	NBU 922-34B4BS	Sec 34	T09S	R22E	2024 FNL 1549 FWL
43-047-53497	NBU 922-34L1CS	Sec 34	T09S	R22E	2071 FSL 1012 FWL
43-047-53498	NBU 922-34B4CS	Sec 34	T09S	R22E	2027 FNL 1568 FWL
43-047-53499	NBU 922-34K4BS	Sec 34	T09S	R22E	2035 FSL 0977 FWL
43-047-53500	NBU 922-34F1BS	Sec 34	T09S	R22E	2021 FNL 1529 FWL
43-047-53501	NBU 922-34J1BS	Sec 34	T09S	R22E	2057 FSL 0998 FWL
43-047-53502	NBU 922-34J4BS	Sec 34	T09S	R22E	2028 FSL 0970 FWL
43-047-53503	NBU 922-34K1CS	Sec 34	T09S	R22E	2064 FSL 1005 FWL
43-047-53504	NBU 922-34K1BS	Sec 34	T09S	R22E	2078 FSL 1019 FWL
43-047-53505	NBU 922-34F1CS	Sec 34	T09S	R22E	2026 FNL 1559 FWL
43-047-53506	NBU 922-34F4CS	Sec 34	T09S	R22E	2085 FSL 1026 FWL
43-047-53507	NBU 922-34J1CS	Sec 34	T09S	R22E	2050 FSL 0991 FWL
43-047-53508	NBU 922-34J4CS	Sec 34	T09S	R22E	1203 FSL 0497 FWL
43-047-53509	NBU 922-34K4CS	Sec 34	T09S	R22E	1213 FSL 0499 FWL
43-047-53510	NBU 922-34L2DS	Sec 34	T09S	R22E	1232 FSL 0505 FWL
43-047-53511	NBU 922-34L3DS	Sec 34	T09S	R22E	1222 FSL 0502 FWL
43-047-53512	NBU 922-34M1BS	Sec 34	T09S	R22E	1194 FSL 0493 FWL
43-047-53513	NBU 922-34M4BS	Sec 34	T09S	R22E	0325 FSL 0787 FWL
43-047-53514	NBU 922-34M4CS	Sec 34	T09S	R22E	0295 FSL 0747 FWL
43-047-53515	NBU 922-34N1CS	Sec 34	T09S	R22E	0319 FSL 0779 FWL
43-047-53516	NBU 922-34N4BS	Sec 34	T09S	R22E	0307 FSL 0763 FWL
43-047-53517	NBU 922-34N4CS	Sec 34	T09S	R22E	0301 FSL 0755 FWL
43-047-53518	NBU 922-34O1BS	Sec 34	T09S	R22E	0313 FSL 0771 FWL
43-047-53519	NBU 921-17B4CS	Sec 17	T09S	R21E	1527 FNL 2258 FEL
43-047-53520	NBU 921-17F1CS	Sec 17	T09S	R21E	1529 FNL 2288 FEL
43-047-53521	NBU 921-17F4BS	Sec 17	T09S	R21E	1528 FNL 2278 FEL
43-047-53522	NBU 921-17A4BS	Sec 17	T09S	R21E	2074 FNL 0557 FEL
43-047-53523	NBU 921-17G4BS	Sec 17	T09S	R21E	1528 FNL 2268 FEL
43-047-53524	NBU 921-17A4CS	Sec 17	T09S	R21E	2076 FNL 0547 FEL

API	Well Name	Surface Location			
		Sec 17	T09S	R21E	
43-047-53525	NBU 921-17H1BS	Sec 17	T09S	R21E	2078 FNL 0538 FEL
43-047-53526	NBU 921-17H1CS	Sec 17	T09S	R21E	2080 FNL 0528 FEL
43-047-53527	NBU 921-17H4CS	Sec 17	T09S	R21E	2082 FNL 0518 FEL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/3/2013

API NO. ASSIGNED: 43047534970000

WELL NAME: NBU 922-34L1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NWSW 34 090S 220E

Permit Tech Review: ☒

SURFACE: 2071 FSL 1012 FWL

Engineering Review: ☒

BOTTOM: 2107 FSL 1021 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99085

LONGITUDE: -109.43191

UTM SURF EASTINGS: 633873.00

NORTHINGS: 4427919.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0149077

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - WYB000291☐ Potash☒ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8496☐ RDCC Review:☐ Fee Surface Agreement☒ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: NATURAL BUTTES

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

RECEIVED: January 30, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-34L1CS
API Well Number: 43047534970000
Lease Number: UTU-0149077
Surface Owner: FEDERAL
Approval Date: 1/30/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 04 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0149077
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE L		7. If Unit or CA Agreement, Name and No. 891008900A
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. NBU 922-34L1CS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 43-047-53497
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2071FSL 1012FWL 39.990951 N Lat, 109.431965 W Lon At proposed prod. zone NWSW 2107FSL 1021FWL 39.991049 N Lat, 109.431932 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 50 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 34 T9S R22E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 785	16. No. of Acres in Lease 600.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 74	19. Proposed Depth 8970 MD 8969 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4989 GL	22. Approximate date work will start 07/01/2012	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 12/04/2012
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 04 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #161648 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 12/14/2012 (13JM0154AE)

RECEIVED

JUN 07 2013

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

2011/11/10

11/10/12



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore, LP
Well No: NBU 922-34L1CS
API No: 43-047-53497

Location: NWSW, Sec. 34, T9S, R22E
Lease No: UTU-0149077
Agreement: Natural Butte

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - Soils
 - Vegetation: *Sclerocactus wetlandicus*
 - Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Paleontological monitoring by a BLM permitted paleontologist is required for Well Pads 922-33A, 922-33D, 922-33E, 922-33H, and 922-33N; Access Road for 922-33E during all ground disturbing activities (BLM 2012b; BLM 2013c).
- Construction and development activities will be prohibited at the Well pads 922-34E, 922-34F, and 922-34L locations from 5/15 to 6/30 (BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to

avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.
- Gamma Ray Log shall be run from TD to the Surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
PHONE NUMBER: 720 929-6582		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/30/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L. P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining Date: November 18, 2013 By: </div>		
NAME (PLEASE PRINT) Kay E. Kelly		PHONE NUMBER 720 929 6582
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 11/14/2013		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534970000

API: 43047534970000

Well Name: NBU 922-34L1CS

Location: 2071 FSL 1012 FWL QTR NWSW SEC 34 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Kay E. Kelly

Date: 11/14/2013

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/8/2014	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Spud well 01/08/2014 @ 08:30. Drill 24" conductor hole to 40', run 14" X .250 wall conductor pipe, cement with 81 sacks ready mix. Anticipated surface spud date and surface casing cement 02/24/2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 10, 2014		
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/10/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/24/2014	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Drilled to 8,970 ft. in Quarter 2 of 2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 25, 2014		
NAME (PLEASE PRINT) Ila Beale		PHONE NUMBER 720 929-6408
SIGNATURE N/A		TITLE Staff Reg. Specialist
DATE 6/24/2014		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/11/2014	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 8,970 ft. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 12, 2014		
NAME (PLEASE PRINT) Kay E. Kelly		PHONE NUMBER 720 929 6582
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/11/2014		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/17/2014	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE WELL IS TD AT 8,970'. WAITING ON COMPLETION OPERATIONS TO BEGIN. THANK YOU.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 17, 2014		
NAME (PLEASE PRINT) Kay E. Kelly		PHONE NUMBER 720 929 6582
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 12/17/2014		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2071 FSL 1012 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047534970000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/20/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 922-34L1CS was placed on production 01/20/2015 after a new well completion. Producing from the MESAVERDE.		
NAME (PLEASE PRINT) Doreen Green		PHONE NUMBER 435 781-9758
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 1/20/2015		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 27, 2015

RECEIVED: Feb. 13, 2015

28b. Production- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

28c. Production- Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)

Sold

30. Summary of Porous Zones (include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers:

Formation	Top	Bottom	Descriptions, Contents, Etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1130
				BIRD'S NEST	1482
				MAHOGANY	1970
				WASATCH	4378
				MESA VERDE	6748

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Doreen GreenTitle Regulatory Analyst II

Signature _____

Date 2/13/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

General: This form is designed for submitting a complet and correct well completion/ recompletion report and log on all types of wells on Federal and Indian lease to a federal agency, pursuant to applicable federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: : (1) Evaluate the equipment and procedures used during the drilling and completing/ recompleting of a well. (2) The review of geologic zones and formations encountered during drilling. (3) Analyse future applications to drill in light of data obtained and methods used. (4)(5) Information from record and or the record will be transferred to the appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/ recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/ recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyse operations and to compare equipment and procedures actually used with those proposed and approved. Response to this request is mandatory only if the operator elects to initiate drilling and completing/ recompleting operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency -sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/23/2014	22:30 - 0:00	1.50	MIRU	01	C	P	58	CONDUCT JSA WITH TRUCKS TO SKID RIG / SKID RIG FROM NBU 922-34J1CS TO THE NBU 922-34L1CS, WELL 2 OF 8. HOWCROFT FIELD SERVICES HAD 2 TRUCKS 1 SWAMPER 1 PUSHER/SAFETY MAN
2/24/2014	0:00 - 2:00	2.00	MIRU	01	C	P	58	SKID RIG / RIG UP
	2:00 - 4:30	2.50	MIRU	01	B	P	58	WELD ON CONDUCTOR / RIG UP FLOW LINE
	4:30 - 5:30	1.00	MIRU	01	B	P	58	LOAD BHA / PICK UP BHA / INSTAL ROTATING HEAD RUBBER / AIR OUT PUMPS
	5:30 - 6:00	0.50	MIRU	23	B	P	58	PRE SPUD SAFETY MEETING
	6:00 - 6:30	0.50	MIRU	23	B	P	58	ANADARKO SAFETY MEETING
	6:30 - 8:00	1.50	DRLSUR	02	B	P	58	DRILL 12 1/4 SURFACE HOLE F/ 49' TO 200' , 151' @ 151 FPH WOB = 8 TO 12K ROTARY RPM = 65 MUD MOTOR RPM = 111 TOTAL = 166 PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 800/600 TORQUE ON/OFF = 2000/740 PU = 30 / SO = 28 / ROT = 28 PEAK ON LINE ARCHER OFF
	8:00 - 9:30	1.50	DRLSUR	06	A	P	209	TRIP OUT / CHANGE BIT / PICK UP EIRECTIONAL BHA AND TOOLS / TRIP IN
	9:30 - 11:30	2.00	DRLSUR	02	B	P	209	DRILL 11" SURFACE HOLE F/ 200' TO 390', 190' @ 95.5' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU = 52 / SO = 45 / ROT = 49 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 22' = 11.52% 1.09' ABOVE & .35' RIGHT OF THE LINE NO HOLE ISSUES
	11:30 - 12:00	0.50	DRLSUR	07	C	P	399	CHANGE ROTATING HEAD RUBBER

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	12:00 - 17:30	5.50	DRLSUR	02	B	P	399	DRILL 11" SURFACE HOLE F/ 391' TO 1,110', 718' @ 119.7' FPH WOB = 18 TO 23K ROTARY RPM = 60 / MUD MOTOR RPM = 68 / TOTAL = 128 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 60 / SO = 55 / ROT = 58 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 166' = 22.13% 7.6' ABOVE & 1.60 LEFT OF THE LINE NO HOLE ISSUES
	17:30 - 18:00	0.50	DRLSUR	07	A	P	1119	RIG SERVICE
	18:00 - 0:00	6.00	DRLSUR	02	B	P	1119	DRILL 11" SURFACE HOLE F/ 1,110' TO 1,768', 658' @ 109.7' FPH WOB = 18 TO 23K ROTARY RPM = 60 / MUD MOTOR RPM = 68 / TOTAL = 128 PUMPING 400 GPM @ 124 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 74 / SO = 63 / ROT = 57 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 47' = 7.47% 7.0' ABOVE & 4.12 LEFT OF THE LINE NO HOLE ISSUES
2/25/2014	0:00 - 7:30	7.50	DRLSUR	02	B	P	1777	DRILL 11" SURFACE HOLE F/ 1,768' TO 2,420', 652' @ 86.9' FPH WOB = 18 TO 23K ROTARY RPM = 60 / MUD MOTOR RPM = 68 / TOTAL = 128 PUMPING 400 GPM @ 124 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 82 / SO = 75 / ROT = 78 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 71' = 14.03% 6.69' ABOVE & .71' LEFT OF THE LINE NO HOLE ISSUES
	7:30 - 9:00	1.50	DRLSUR	05	A	P	2429	SURVEY / CIRCULATE AND CLEAN THE HOLE
	9:00 - 11:30	2.50	DRLSUR	06	D	P	2429	LAY DOWN DRILL PIPE / BHA / DIRECTIONAL TOOLS
	11:30 - 12:30	1.00	DRLSUR	12	A	P	2429	RIG DOWN CUSHION SUB / RIG UP CASING SPEAR

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	12:30 - 14:30	2.00	CSGSUR	12	C	P	2429	PREJOB SAFETY WITH RIG CREW. RAN 54 JTS OF 8 5/8", 28#, J-55, LT&C CASING WITH CTE FLOAT GUIDE SHOE AND BAFFLE PLATE LOCATED 1 JOINT ABOVE THE SHOE. 5 CENTRALIZERS SPACED 10' ABOVE THE SHOE, 2ND & 3RD COLLARS, AND EVERY THIRD COLLAR TO 1,991'. LANDED CASING SHOE AT 2,388'. BAFFLE PLATE @ 2,341'.
	14:30 - 15:00	0.50	CSGSUR	05	D	P	2429	FILL PIPE
	15:00 - 16:30	1.50	CSGSUR	12	E	P	2429	PREJOB SAFETY MEETING WITH PRO PETRO CEMENTERS & RIG CREW. TESTED LINES TO 2500 PSI PUMPED 120 BBLS FRESH WATER CLEARING SHOE RETURNS TO SURFACE MIXED AND PUMPED 20 BBL GELLED WATER FLUSH AHEAD OF CEMENT MIXED AND PUMPED 300 SX OF PREMIUM LEAD CEMENT WITH 2% CACL2 & 1/4 LB/SX FLOCELE. 61.4 BBL OF SLURRY MIXED @ 12.0 PPG WITH YIELD OF 2.86 CF/SX. DROP PLUG ON FLY. DISPLACE CEMENT WITH 146 BBL FRESH WATER. RETURNS THROUGH OUT DISPLACEMENT. FINAL LIFT OF 145 PSI @ 3 BBL/MINUTE. BUMP PLUG WITH 185 PSI. HELD 440 PSI FOR 5 MINUTES. CHECK FLOAT. FLOAT HELD. TOP JOB # 1: PUMP CEMENT DOWN 1" PIPE WITH 150 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 30.7 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. WAIT ON CEMENT 2 HRS TOP JOB # 2: PUMP CEMENT DOWN 1" PIPE WITH 175 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 35.6 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX RELEASE RIG 02/25/2014 @ 16:30 RELEASE CEMENTERS
5/18/2014	18:00 - 19:00	1.00	MIRU3	01	C	P	2429	RIG DOWN - SKID RIG - RIG UP
	19:00 - 20:00	1.00	PRPSPD	14	A	P	2429	NIPPLE UP BOP'S - CHOKE & KILL LINES / ROTATING HEAD & FLOW LINE
	20:00 - 23:00	3.00	PRPSPD	15	A	P	2429	HOLD SAFETY MEETING, RUN TEST ASSY, TEST BOP WITH A-1 TESTERS - TEST ANNULAR TO 250 PSI LOW/ 5 MIN 2500 PSI HIGH 10 MIN, PIPE & BLIND RAMS, FLOOR VALVES, IBOP, HCR VALVE, KILL LINE VALVES, TEST BOP'S, CHOKE MANIFOLD TO 250 PSI LOW/ 5 MIN - 5000 PSI HIGH 10 MIN, HOLD ACCUMULATOR FUNCTION TEST, TEST CSG 1500 PSI - 30 MIN, RIG DOWN
	23:00 - 23:30	0.50	PRPSPD	14	B	P	2429	INSTALL WEAR BUSHING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	23:30 - 0:00	0.50	PRPSPD	06	J	P	2429	PICK UP SCIENTIFIC 6 1/2", 1.5 BEND, HR, 7/8 LOBE, 3.3 STAGE 0.16 RPG MUD MOTOR, (SER #6320-NBR) - MAKE UP SECURITY MM65M PDC BIT, DRESSED WITH 6 X 15 JETS, (TFA = 1.035), SER #123679 - INSTALL MWD TOOL, ORIENT & SCRIBE
5/19/2014	0:00 - 0:30	0.50	PRPSPD	06	J	P	2429	PICK UP SCIENTIFIC 6 1/2", 1.5 BEND, HR, 7/8 LOBE, 3.3 STAGE 0.16 RPG MUD MOTOR, (SER #6320-NBR) - MAKE UP SECURITY MM65M PDC BIT, DRESSED WITH 6 X 15 JETS, (TFA = 1.035), SER #123679 - INSTALL MWD TOOL, ORIENT & SCRIBE
	0:30 - 1:30	1.00	PRPSPD	06	A	P	2429	TRIP IN HOLE TO TOC AT 2222' / INSTALL ROTATING RUBBER
	1:30 - 3:00	1.50	DRLPRC	02	F	P	2429	DRILL CEMENT & FLOAT EQUIPMENT, CLEAN OUT TO 2429'
	3:00 - 13:30	10.50	DRLPRV	02	B	P	2429	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 2,429' TO / 4438' = 2009' @ 191.3' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 1600 STAND PIPE PRESSURE OFF BOTTOM = 1,200 STRING WEIGHT UP/DOWN/ROTATING = 120K / 90K / 110K DRAG = 10K HOLE IN GOOD CONDITION SLIDE 26% OF TIME AND 9% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5' FLARE WHEN DRILLED OUT OF CASING SHOE
	13:30 - 14:00	0.50	DRLPRV	07	A	P	4438	LUBRICATE RIG

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	14:00 - 0:00	10.00	DRLPRV	02	B	P	4438	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 4438' TO / 5899' = 1461' @ 146.1' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 2150 STAND PIPE PRESSURE OFF BOTTOM = 1800 STRING WEIGHT UP/DOWN/ROTATING = 190K / 130K / 158K DRAG = 32K HOLE IN GOOD CONDITION SLIDE 4% OF TIME AND 3% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
5/20/2014	0:00 - 8:00	8.00	DRLPRV	02	B	P	5899	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 5899' TO / 6612' = 713' @ 89.1' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 2150 STAND PIPE PRESSURE OFF BOTTOM = 1800 STRING WEIGHT UP/DOWN/ROTATING = 210K / 135K / 165K DRAG = 45K HOLE IN GOOD CONDITION SLIDE 5% OF TIME AND 3% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9.2 PPG VISCOSITY = 31 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:00 - 15:30	7.50	DRLPRV	02	B	P	6612	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 6612' TO / 7189' = 577' @ 76.9' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 2100 STAND PIPE PRESSURE OFF BOTTOM = 1850 STRING WEIGHT UP/DOWN/ROTATING = 235K / 150K / 185K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 23% OF TIME AND 10% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9.2 PPG VISCOSITY = 31 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
	15:30 - 16:00	0.50	DRLPRV	07	A	P	7189	LUBRICATE RIG
	16:00 - 0:00	8.00	DRLPRV	02	B	P	7189	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7189' TO / 7875' = 686' @ 85.8' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 2200 STAND PIPE PRESSURE OFF BOTTOM = 1900 STRING WEIGHT UP/DOWN/ROTATING = 240K / 155K / 190K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 5% OF TIME AND 3% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9.2 PPG VISCOSITY = 31 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/21/2014	0:00 - 8:00	8.00	DRLPRV	02	B	P	7875	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7875' TO / 8446' = 571' @ 71.4' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 2200 STAND PIPE PRESSURE OFF BOTTOM = 1900 STRING WEIGHT UP/DOWN/ROTATING = 240K / 155K / 190K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 5% OF TIME AND 3% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9.2 PPG VISCOSITY = 31 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB START DISPLACING WITH 12# MUD @ 8400'
	8:00 - 10:30	2.50	DRLPRV	22	N	X	8446	*** TOOK GAS KICK WHILE DISPLACING WITH 12# MUD - BLEW RETURN LINE FROM GAS BUSTER OFF - SHUT IN WELL AND REPAIR - HAD 400 PSI SHUT IN CASING PRESSURE & 600 PSI SHUT IN DRILL PIPE PRESSURE - CIRCULATE OUT @ 40 SPM HOLDING 700 PSI ON DRILL PIPE WHILE BRINGING MUD WT FROM 11# TO 11.9# HAD 40-60' FLARE WHILE CIRCULATING OUT GAS
	10:30 - 16:30	6.00	DRLPRV	02	B	P	8446	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8,446' TO / 8,710' = 264' @ 44' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 105 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 2200 STAND PIPE PRESSURE OFF BOTTOM = 1900 STRING WEIGHT UP/DOWN/ROTATING = 240K / 155K / 190K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 0% OF TIME AND 0% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 11.9 PPG VISCOSITY = 36 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
	16:30 - 16:30	0.00	DRLPRV	07	A	P	8710	RIG SERVICE, SERVICE TOP DRIVE, SERVICE DRAW WORKS, CHECK BRAKES AND ADJUST, SERVICE CROWN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	16:30 - 22:30	6.00	DRLPRV	02	B	P	8710	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8,710' TO / 8,970' = 260' @ 43' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 105 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 2200 STAND PIPE PRESSURE OFF BOTTOM = 1900 STRING WEIGHT UP/DOWN/ROTATING = 260K / 180K / 220K DRAG = 40K HOLE IN GOOD CONDITION SLIDE 0% OF TIME AND 0% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 11.9 PPG VISCOSITY = 36 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
	22:30 - 0:00	1.50	DRLPRV	05	C	P	8970	CONDITION MUD & CIRCULATE, WORKING DRILL STRING UP AND DOWN, MUD IN 12.0 PPG VISCOSITY=36, MUD OUT 12.0 PPG VISCOSITY=36, MUD COMING OVER SHAKERS IS CLEAN, CIRCULATE WITH NO GAINS AND NO LOSSES PUMPED 40 BBL CAL CARB SWEEPS WITH WALL NUT AND, MULTI SEAL, NO FLOW ON FLOW CHECKS
5/22/2014	0:00 - 1:00	1.00	DRLPRV	06	E	P	8970	15 STAND WIPER TRIP BACK TO 7,600', NO TIGHT HOLE, HOLE TOOK PROPER FILL WITH NO GAINS AND NO LOSSES NO FLOW ON FLOW CHECKS
	1:00 - 3:00	2.00	DRLPRV	05	C	P	8970	CONDITION MUD & CIRCULATE, WORKING DRILL STRING UP AND DOWN, MUD IN 12.0 PPG VISCOSITY=36, MUD OUT 12.0 PPG VISCOSITY=36, MUD COMING OVER SHAKERS IS CLEAN, BUILD 40 BBL 14.2# DRY JOB CIRCULATE WITH NO GAINS AND NO LOSSES NO FLOW ON FLOW CHECKS
	3:00 - 9:00	6.00	DRLPRV	06	B	P	8970	PUMP 40 BBL DRY JOB, BLOW DOWN TOP DRIVE, TRIP OUT OF HOLE FOR LOGS, TIGHT HOLE @ 6200', 4600', WASHED AND REAMED THROUGH TIGHT HOLE HOLE TOOK PROPER FILL WITH NO GAINS NO LOSSES NO FLOW ON FLOW CHECKS
	9:00 - 10:30	1.50	EVALPR	11	D	P	8970	HOLD SAFETY MEETING WITH WEATHERFORD LOGGING PICK UP SHUTTLE LOGGING TOOLS MAKE UP 3 1/2 DRILL PIPE AND CROSS OVERS INSTALL SHUTTLE LOG

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	10:30 - 17:00	6.50	EVALPR	11	D	P	8970	TRIP IN HOLE WITH LOGGING TOOLS BREAK CIRCULATION EVERY 15 STANDS WASH DOWN LAST 3,000' TO BOTTOM
	17:00 - 18:00	1.00	EVALPR	11	D	P	8970	DEPLOY DART & CIRCULATE BOTTOMS UP
	18:00 - 0:00	6.00	EVALPR	11	D	P	8970	LOG UP FROM LOGGERS DEPTH OF 8,960'
5/23/2014	0:00 - 2:00	2.00	EVALPR	11	D	P	8970	LOGG UP FROM LOGGERS DEPTH OF 8,960' RIG DOWN SHUTTLE LOGGS
	2:00 - 2:30	0.50	EVALPR	14	B	P	8970	PULL WEAR BUSHING
	2:30 - 4:00	1.50	CSGPRO	12	A	P	8970	HOLD SAFETY MEETING / RIG UP WYOMING CASING SERVICE CASING EQUIPMENT
	4:00 - 10:00	6.00	CSGPRO	12	C	P	8970	WYOMING CASING SERVICE, (INSPECT FLOAT EQUIPMENT) RIG UP TORQUE TURN, PERFORM DUMP TEST. MAKE UP 4.5" K-55 LTC DRILLING & COMPLETION TECH. FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR WITH THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. BREAK CIRCULATION @ 50', 2,000', 5,000', 7,000'. NO PROBLEMS WITH FLOAT SHOE OR COLLAR. RUN A TOTAL OF 89 JOINTS OF 4 1/2", 11.6# I-80, LT&C CASING + 2 MARKER JOINT MAKE UP DQX CROSS OVER JOINT AND, RUN A TOTAL OF 113 JOINTS OF 4 1/2", 11.6# I-80/ DQX, CASING, + 1 CROSSOVER + 1 PUP JOINT RUN A TOTAL OF 206 JOINTS OF CASING TO BOTTOM, HAD SOME TROUBLE GETTING SOME DQX TO SHOULDER HAD TO BACK THEM OUT ONCE OR TWICE TO GET THEME TO SHOULDER, AND SHOULDER'S WERE HIGH BUT STILL IN SPEC. FILL PIPE EVERY 2,000' DURING CASING RUN SET FLOAT SHOE @ 8,964.74', SET TOP FLOAT COLLAR @ 8,917.52', SET TOP OF MESAVERDE MARKER JOINT @ 6,731.64'
	10:00 - 13:00	3.00	CSGPRO	05	D	P	8970	CIRCULATE HOLE CLEAN HOLD SAFETY MEETING, RIG UP BAKER HUGHES CEMENTING EQUIPMENT

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 2/23/2014

End date: 5/23/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

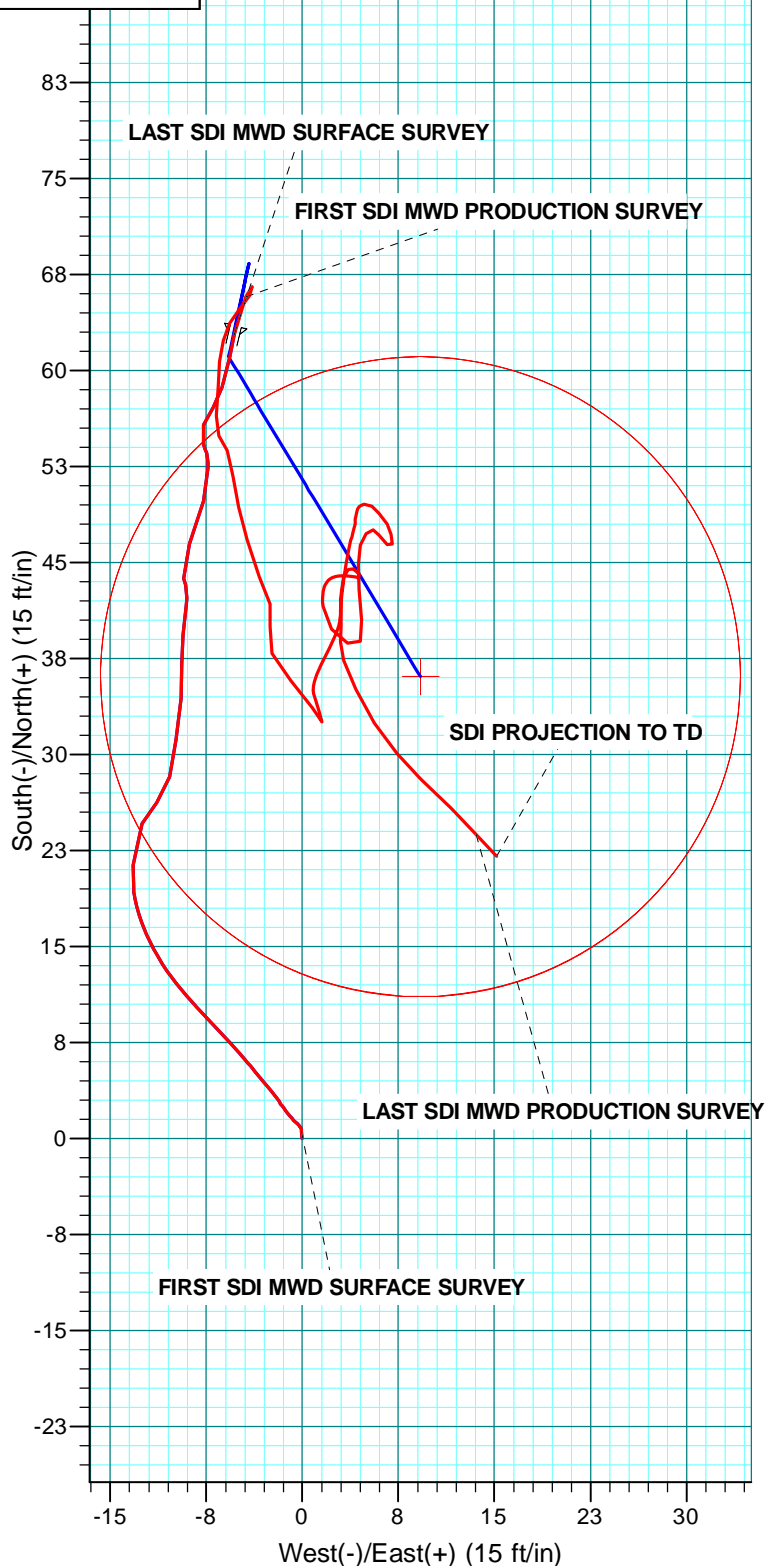
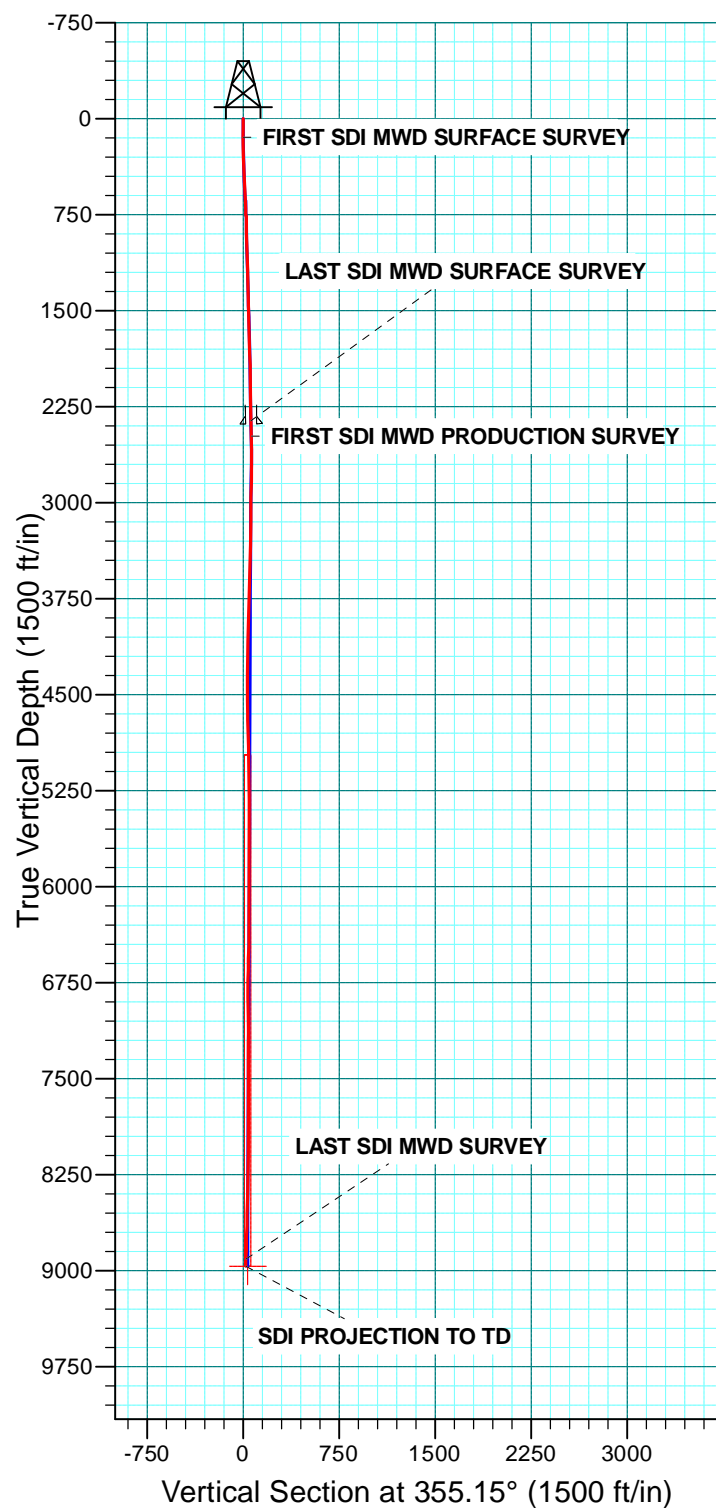
UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	13:00 - 16:00	3.00	CSGPRO	12	E	P	8970	HOLD SAFETY MEETING CEMENT WITH BAKER HUGHES TEST LINES TO 5,000 PSI, DROP BOTTOM PLUG, PUMP 25 BBLS H2O 8.3 PPG SPACER, USED 25% EXCESS CEMENT ON LEAD CEMENT MIX & PUMP 178.23 BBLS LEAD CEMENT 505 SACKS WITH CLASS G CEMENT, WITH PLII +6%GELL +5#skKS +.4%FL52 +.2%SMS +.4% R-3+5#/skSF + 1/4#skCF @ 12.5 PPG WITH 1.98 YIELD, USED 25% EXCESS CEMENT ON TAIL CEMENT MIX & PUMP 259.23 BBLS TAIL CEMENT 1,085 SACKS, WITH CLASS G CEMENT, WITH 50/50 poz+2%gell+0.55% R-3 + 10%salt+5#blnd S.F. +.75%SMS @ 14.3 PPG WITH 1.34 YIELD, WASH UP LINES & DROP THE TOP PLUG DISPLACE WITH 138.6 BBLS H2O @ 8.3 PPG, WITH 6 GALLONS CLAY CARE, CLAY TREAT-2C FINAL LIFT PRESSURE PRIOR TO BUMPING PLUG 2,588 PSI BUMP PLUG WITH 3,230 PSI GOOD RETURNS THROUGHOUT JOB - 5 BBLS SPACER BACK TO SURFACE RIG DOWN CEMENTING EQUIPMENT TOP OF LEAD CEMENT@ 400', TOP OF TAIL CEMENT@ 3800'
	16:00 - 17:00	1.00	CSGPRO	12	C	P	8970	LAY DOWN LANDING JOINT INSTALL & TEST PACK OFF 5000 PSI, 10 MINUTES
	17:00 - 18:00	1.00	RDMO	14	A	P	8970	NIPPLE DOWN BOP'S CLEAN MUD TANKS RELEASE RIG @ 05/23/2014 18:00 HOURS

WELL DETAILS: NBU 922-34L1CS

GL 4989 & KB 18 @ 5007.00ft (SST 57)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14526628.03	2079816.61	39.9909850	-109.4312820





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 922-34L PAD

NBU 922-34L1CS

OH

Design: OH

Standard Survey Report

28 May, 2014





Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34L1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-34L PAD, SECTION 34 T9S R22E		
Site Position:		Northing:	14,526,606.18 usft
From:	Lat/Long	Easting:	2,079,795.97 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39.9909260
		Longitude:	-109.4313570
		Grid Convergence:	1.01 °

Well	NBU 922-34L1CS, 2017 FSL 1012 FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,526,628.03 usft
	+E/-W	0.00 ft	Easting: 2,079,816.61 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39.9909850
		Longitude:	-109.4312820
		Ground Level:	4,989.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	2/12/2014	10.79	65.79	51,982

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	355.15	

Survey Program	Date	5/28/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
9.00	2,363.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,484.00	8,970.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	0.44	354.79	147.00	0.53	-0.05	0.53	0.32	0.32	0.00	
FIRST SDI MWD SURFACE SURVEY										
241.00	0.62	309.97	240.99	1.21	-0.47	1.25	0.46	0.19	-47.68	
334.00	1.76	324.56	333.97	2.70	-1.68	2.83	1.26	1.23	15.69	
428.00	3.61	318.76	427.87	6.10	-4.47	6.46	1.99	1.97	-6.17	
522.00	4.13	317.00	521.65	10.80	-8.73	11.50	0.57	0.55	-1.87	
616.00	3.78	336.95	615.43	16.13	-12.25	17.11	1.50	-0.37	21.22	
708.00	2.99	5.78	707.28	21.31	-13.20	22.35	2.01	-0.86	31.34	



Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34L1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
803.00	1.14	28.63	802.21	24.60	-12.50	25.57	2.09	-1.95	24.05
898.00	1.23	41.46	897.19	26.20	-11.37	27.06	0.29	0.09	13.51
992.00	1.58	14.65	991.17	28.21	-10.37	28.98	0.78	0.37	-28.52
1,084.00	2.11	6.22	1,083.12	31.12	-9.87	31.84	0.65	0.58	-9.16
1,176.00	1.98	7.62	1,175.06	34.38	-9.47	35.05	0.15	-0.14	1.52
1,271.00	1.32	353.56	1,270.02	37.09	-9.38	37.75	0.81	-0.69	-14.80
1,365.00	1.46	9.78	1,363.99	39.35	-9.30	39.99	0.44	0.15	17.26
1,460.00	1.32	2.96	1,458.96	41.63	-9.04	42.25	0.23	-0.15	-7.18
1,553.00	1.32	346.18	1,551.94	43.74	-9.24	44.37	0.41	0.00	-18.04
1,647.00	2.15	22.33	1,645.90	46.42	-8.83	47.00	1.42	0.88	38.46
1,743.00	2.06	13.99	1,741.83	49.76	-7.72	50.24	0.33	-0.09	-8.69
1,836.00	1.23	359.00	1,834.80	52.38	-7.34	52.82	1.00	-0.89	-16.12
1,929.00	1.14	337.14	1,927.78	54.23	-7.71	54.69	0.49	-0.10	-23.51
2,022.00	0.91	31.70	2,020.76	55.72	-7.69	56.17	1.03	-0.25	58.67
2,116.00	0.97	23.53	2,114.75	57.08	-6.98	57.47	0.16	0.06	-8.69
2,211.00	1.15	23.10	2,209.73	58.69	-6.28	59.02	0.19	0.19	-0.45
2,303.00	1.85	10.08	2,301.70	61.01	-5.66	61.27	0.84	0.76	-14.15
2,363.00	1.58	11.67	2,361.68	62.77	-5.32	62.99	0.46	-0.45	2.65
LAST SDI MWD SURFACE SURVEY									
2,388.00	1.53	13.75	2,386.67	63.43	-5.17	63.64	0.30	-0.19	8.32
8 5/8"									
2,484.00	1.37	23.00	2,482.64	65.73	-4.42	65.87	0.30	-0.17	9.64
FIRST SDI MWD PRODUCTION SURVEY									
2,579.00	0.34	162.94	2,577.63	66.51	-3.89	66.60	1.73	-1.08	147.31
2,674.00	0.63	216.93	2,672.62	65.82	-4.12	65.94	0.54	0.31	56.83
2,769.00	0.84	216.39	2,767.62	64.85	-4.85	65.02	0.22	0.22	-0.57
2,864.00	0.86	213.35	2,862.61	63.69	-5.66	63.94	0.05	0.02	-3.20
2,959.00	0.96	188.21	2,957.59	62.31	-6.16	62.60	0.43	0.11	-26.46
3,053.00	1.06	192.52	3,051.58	60.68	-6.46	61.01	0.13	0.11	4.59
3,148.00	1.32	174.85	3,146.56	58.73	-6.55	59.07	0.47	0.27	-18.60
3,243.00	1.49	191.46	3,241.53	56.43	-6.70	56.79	0.46	0.18	17.48
3,338.00	0.68	131.73	3,336.52	54.84	-6.53	55.20	1.36	-0.85	-62.87
3,433.00	0.97	161.84	3,431.51	53.70	-5.85	54.01	0.54	0.31	31.69
3,528.00	1.49	171.60	3,526.48	51.72	-5.42	51.99	0.59	0.55	10.27
3,623.00	1.50	167.27	3,621.45	49.28	-4.97	49.53	0.12	0.01	-4.56
3,718.00	1.67	162.99	3,716.42	46.75	-4.29	46.94	0.22	0.18	-4.51
3,813.00	2.00	160.57	3,811.37	43.86	-3.33	43.99	0.36	0.35	-2.55
3,908.00	0.79	154.64	3,906.34	41.71	-2.50	41.77	1.28	-1.27	-6.24
4,003.00	1.41	195.42	4,001.32	39.99	-2.53	40.06	1.01	0.65	42.93
4,098.00	1.32	152.88	4,096.30	37.89	-2.34	37.95	1.05	-0.09	-44.78
4,193.00	1.75	140.66	4,191.26	35.79	-0.93	35.74	0.57	0.45	-12.86
4,288.00	1.58	142.24	4,286.22	33.63	0.80	33.45	0.19	-0.18	1.66
4,383.00	0.09	221.26	4,381.21	32.54	1.55	32.29	1.65	-1.57	83.18
4,478.00	0.97	350.19	4,476.21	33.28	1.36	33.04	1.08	0.93	135.72



Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34L1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,573.00	0.70	332.70	4,571.20	34.59	0.96	34.38	0.39	-0.28	-18.41
4,668.00	1.49	22.45	4,666.18	36.24	1.16	36.02	1.23	0.83	52.37
4,763.00	1.67	27.81	4,761.14	38.61	2.28	38.28	0.24	0.19	5.64
4,858.00	1.67	3.47	4,856.10	41.22	3.01	40.81	0.74	0.00	-25.62
4,953.00	1.32	7.68	4,951.07	43.68	3.24	43.25	0.39	-0.37	4.43
5,047.00	1.18	12.08	5,045.05	45.70	3.59	45.23	0.18	-0.15	4.68
5,142.00	0.74	16.13	5,140.04	47.25	3.96	46.74	0.47	-0.46	4.26
5,237.00	0.62	1.97	5,235.03	48.35	4.15	47.83	0.22	-0.13	-14.91
5,332.00	0.44	31.26	5,330.02	49.18	4.36	48.63	0.34	-0.19	30.83
5,427.00	0.38	83.35	5,425.02	49.52	4.86	48.94	0.38	-0.06	54.83
5,522.00	0.41	123.74	5,520.02	49.37	5.46	48.73	0.29	0.03	42.52
5,617.00	0.53	141.80	5,615.02	48.84	6.01	48.15	0.20	0.13	19.01
5,712.00	0.77	147.71	5,710.01	47.95	6.62	47.22	0.26	0.25	6.22
5,806.00	0.32	178.08	5,804.01	47.16	6.97	46.40	0.55	-0.48	32.31
5,902.00	0.55	173.19	5,900.00	46.43	7.03	45.67	0.24	0.24	-5.09
5,997.00	0.73	312.80	5,995.00	46.39	6.64	45.66	1.27	0.19	146.96
6,092.00	0.50	326.88	6,090.00	47.15	5.97	46.47	0.29	-0.24	14.82
6,186.00	0.27	280.87	6,183.99	47.53	5.53	46.90	0.39	-0.24	-48.95
6,281.00	0.57	225.09	6,278.99	47.24	4.98	46.65	0.50	0.32	-58.72
6,376.00	0.74	188.46	6,373.99	46.30	4.55	45.75	0.47	0.18	-38.56
6,471.00	1.06	183.38	6,468.97	44.82	4.41	44.28	0.35	0.34	-5.35
6,566.00	1.32	175.73	6,563.95	42.85	4.44	42.32	0.32	0.27	-8.05
6,662.00	1.49	174.41	6,659.92	40.50	4.64	39.97	0.18	0.18	-1.38
6,756.00	0.62	202.19	6,753.91	38.82	4.57	38.29	1.05	-0.93	29.55
6,851.00	1.06	291.22	6,848.90	38.66	3.56	38.22	1.28	0.46	93.72
6,946.00	1.14	330.07	6,943.88	39.80	2.27	39.46	0.77	0.08	40.89
7,041.00	1.14	350.28	7,038.87	41.55	1.64	41.26	0.42	0.00	21.27
7,136.00	0.79	23.24	7,133.85	43.08	1.73	42.78	0.68	-0.37	34.69
7,231.00	0.51	73.03	7,228.85	43.80	2.40	43.45	0.64	-0.29	52.41
7,326.00	0.53	86.96	7,323.84	43.95	3.24	43.52	0.13	0.02	14.66
7,421.00	0.65	106.01	7,418.84	43.83	4.20	43.31	0.24	0.13	20.05
7,516.00	0.58	323.49	7,513.84	44.06	4.43	43.53	1.23	-0.07	-150.02
7,611.00	0.17	280.20	7,608.83	44.47	4.00	43.98	0.50	-0.43	-45.57
7,706.00	0.35	253.69	7,703.83	44.42	3.59	43.96	0.22	0.19	-27.91
7,800.00	0.62	187.24	7,797.83	43.83	3.25	43.40	0.61	0.29	-70.69
7,895.00	0.53	192.34	7,892.83	42.89	3.09	42.48	0.11	-0.09	5.37
7,991.00	0.44	179.51	7,988.82	42.09	3.00	41.69	0.15	-0.09	-13.36
8,086.00	0.60	173.15	8,083.82	41.23	3.06	40.83	0.18	0.17	-6.69
8,181.00	0.85	184.44	8,178.81	40.04	3.06	39.63	0.30	0.26	11.88
8,276.00	0.70	182.76	8,273.80	38.75	2.98	38.36	0.16	-0.16	-1.77
8,372.00	1.06	159.82	8,369.79	37.34	3.26	36.93	0.52	0.38	-23.90
8,466.00	1.91	156.78	8,463.76	35.08	4.18	34.60	0.91	0.90	-3.23
8,562.00	1.76	144.62	8,559.71	32.41	5.66	31.81	0.43	-0.16	-12.67



Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34L1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,657.00	1.76	143.04	8,654.66	30.05	7.38	29.32	0.05	0.00	-1.66
8,751.00	1.58	129.94	8,748.63	28.07	9.25	27.19	0.45	-0.19	-13.94
8,847.00	2.37	136.53	8,844.57	25.78	11.63	24.70	0.85	0.82	6.86
8,915.00	2.43	136.58	8,912.51	23.71	13.58	22.48	0.09	0.09	0.07
LAST SDI MWD PRODUCTION SURVEY									
8,970.00	2.43	136.58	8,967.46	22.02	15.19	20.65	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_NBU 922-34L1CS	0.00	0.00	8,969.00	36.06	9.25	14,526,664.25	2,079,825.21	39.9910840	-109.4312490
- actual wellpath misses target center by 15.32ft at 8970.00ft MD (8967.46 TVD, 22.02 N, 15.19 E)									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
2,388.00	2,386.67	8 5/8"		8.625	11.000

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
147.00	147.00	0.53	-0.05	FIRST SDI MWD SURFACE SURVEY
2,363.00	2,361.68	62.77	-5.32	LAST SDI MWD SURFACE SURVEY
2,484.00	2,482.64	65.73	-4.42	FIRST SDI MWD PRODUCTION SURVEY
8,915.00	8,912.51	23.71	13.58	LAST SDI MWD PRODUCTION SURVEY
8,970.00	8,967.46	22.02	15.19	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/20/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/7/2014	-							
7/9/2014	9:00 - 10:30	1.50	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & SURFACE 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -41 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 559 PSI HELD FOR 5 MIN LOST -44 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 10 BBLS H2O
12/23/2014	9:00 - 10:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -55 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.
	10:00 - 11:00	1.00	SUBSPR	37	D	P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
12/29/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA
	6:45 - 17:30	10.75	FRAC	36	H	P		FRAC STG #1) WHP 1403 PSI, BRK 3462 PSI @ 4.2 BPM. ISIP 2486 PSI, FG. 0.72 ISIP 2732 PSI, FG. 0.75, NPI 246 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2) WHP 1279 PSI, BRK 2497 PSI @ 8.4 BPM. ISIP 1704 PSI, FG. 0.63 ISIP 2915 PSI, FG. 0.78, NPI 1211 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3) WHP 583 PSI, BRK 2473 PSI @ 5 BPM. ISIP 1971 PSI, FG. 0.67 ISIP 2731 PSI, FG. 0.77, NPI 760 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, X/O TO FRAC. FRAC STG #4) WHP 459 PSI, BRK 3125 PSI @ 4.9 BPM. ISIP 1683 PSI, FG. 0.65 ISIP 2381 PSI, FG. 0.73, NPI 698 PSI, SWI, SDFN.
12/30/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/20/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:45 - 17:30	10.75	FRAC	36	H	P		SET CBP & PERF STG #5 AS DESIGNED, X/O TO FRAC. FRAC STG #5) WHP 249 PSI, BRK 3662 PSI @ 2.9 BPM. ISIP 1789 PSI, FG. 0.67 ISIP 2165 PSI, FG. 0.72, NPI 376 PSI, X/O TO WL. SET CBP & PERF STG #6 AS DESIGNED, X/O TO FRAC. FRAC STG #6) WHP 1721 PSI, BRK 2798 PSI @ 4.4 BPM. ISIP 2141 PSI, FG. 0.73 ISIP 2379 PSI, FG. 0.76, NPI 238 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STG #7) WHP 813 PSI, BRK 2344 PSI @ 4.9 BPM. ISIP 873 PSI, FG. 0.56 ISIP 2127 PSI, FG. 0.73, NPI 1254 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 1824 PSI, BRK 2161 PSI @ 6.5 BPM. ISIP 1887 PSI, FG. 0.71 ISIP 2154 PSI, FG. 0.75, NPI 267 PSI, X/O TO WL. SET KILL PLUG. RDMO FRAC & WL EQUIP. TOTAL FLUID= 10637 BBLS TOTAL SAND= 224596 LBS
1/19/2015	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, P/U PIPE W/ PIPE WRANGLER
	7:15 - 10:00	2.75	DRLOUT	30	A	P		MIRU, N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, MIRU SLAUGH PIPE WRANGLER.
	10:00 - 10:00	0.00	DRLOUT	31	I	P		P/U 3-7/8 BIT W/ POBS PKG, TALLEY AND P/U
1/20/2015	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, DRILLING PLUGS

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34L1CS YELLOW

Spud date: 2/24/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/20/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 17:00	9.75	DRLOUT	44	C	P		<p>SICP=0#, SITP=0#, OPEN WELL PRESSURE TEST BOPS TO 3,000# [NO LEAKS] BREAK CIRC WL RIG PUMP, DRILL OUT HALIBURTON PLUG @=6,832 IN 4 MIN W/ 200# PRESSURE INCREASE.</p> <p>PLUG #2] CONT. TO RIH TAG @=7,013' [30' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,043' IN 6 MIN W/ 250# PRESSURE INCREASE.</p> <p>PLUG #3] CONT. TO RIH TAG @=7,245' [35' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,280' IN 4 MIN W/ 350# PRESSURE INCREASE.</p> <p>PLUG #4] CONT. TO RIH TAG @=7,451' [20' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,471' IN 5 MIN W/ 550# PRESSURE INCREASE.</p> <p>PLUG #5] CONT. TO RIH TAG @=7,705' [30' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,735' IN 7 MIN W/ 500# PRESSURE INCREASE.</p> <p>PLUG #6] CONT. TO RIH TAG @=7,977' [95' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,072' IN 7 MIN W/ 550# PRESSURE INCREASE.</p> <p>PLUG #7] CONT. TO RIH TAG @=7,271' [30' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,301' IN 6 MIN W/ 700# PRESSURE INCREASE.</p> <p>PLUG #8] CONT. TO RIH TAG @=8,566' [45' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,611' IN 4 MIN W/ 800# PRESSURE INCREASE. CONT. TO RIH C/O TO PBTD @=8,918' CIRC WELL, R/D POWER SWIVEL, L/D 18 JNTS P/U STRIP HANGER IN WELL, LAND W/ 263 JNTS 2-3/8 L-80 TBG @=8,365.47", R/D TBG EQUIP, R/D PIPE WRANGLER, N/D BOPS, DROP BALL, N/U WELL HEAD PUMP BIT OFF W/ # PRESSURE, TURN OVER TO F/B CREW. RDMO</p> <p>KB 24.00 4-1/2 HANGER .83 263 JNTS 2-3/8 L-80 8,338.44 XN POBS 2.20 EOT @= 8,365.47</p>

US ROCKIES REGION

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-34L 1CS YELLOW	Wellbore No.	00
Well Name	NBU 922-34L 1CS	Wellbore Name	NBU 922-34L 1CS
Report no.	1	Report date	12/23/2014
Project	UTAH-UINTAH	Site	NBU 922-34L PAD
Rig Name/No.		Event	COMPLETION
Start date	7/9/2014	End date	1/20/2015
Spud date	2/24/2014	Active datum	RKB @5,007.00usft (above Mean Sea Level)
UWI	NW/SW/09/S/22/E/34/0/0/26/PM/S/2071/W/0/1012/0/0		

1.3 General

Contractor		Job method		Supervisor	
Perforated Assembly		Conveyed method			

1.4 Initial Conditions

Fluid type		Fluid density		Gross Interval	6,886.0 (usft)-8,868.0 (usft)	Start Date/Time	12/29/2014 12:00AM
Surface press.		Estimate res press		No. of intervals	56	End Date/Time	12/29/2014 12:00AM
TVD fluid top		Fluid head		Total shots	189	Net perforation interval	63.00 (usft)
Hydrostatic press.		Press. difference		Avg. shot density	3.00 (shot/ft)	Final surface pressure	
Balance Cond	NEUTRAL					Final press. date	

1.5 Summary**2 Intervals****2.1 Perforated Interval**

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			6,886.0	6,887.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			6,929.0	6,930.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,953.0	6,954.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,996.0	6,998.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,011.0	7,013.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,078.0	7,079.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,110.0	7,111.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,126.0	7,127.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,144.0	7,145.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,177.0	7,178.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,204.0	7,205.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,224.0	7,225.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,249.0	7,250.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,347.0	7,348.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,360.0	7,361.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,378.0	7,379.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

RECEIVED: Feb. 13, 2015

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			7,389.0	7,390.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,407.0	7,408.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,417.0	7,418.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,444.0	7,446.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,501.0	7,502.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,512.0	7,513.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,554.0	7,555.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,590.0	7,592.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,609.0	7,610.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,712.0	7,714.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,792.0	7,793.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,877.0	7,878.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,892.0	7,893.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,915.0	7,916.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,940.0	7,941.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

RECEIVED: Feb. 13, 2015

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			7,966.0	7,967.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,040.0	8,042.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,110.0	8,111.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,126.0	8,127.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,156.0	8,157.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,177.0	8,178.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,196.0	8,197.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,229.0	8,230.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,251.0	8,252.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,266.0	8,267.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,395.0	8,396.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,414.0	8,415.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,451.0	8,452.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,488.0	8,489.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,510.0	8,511.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/201 4 12:00AM	M E S A VERDE/			8,546.0	8,547.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,565.0	8,566.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,580.0	8,581.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,637.0	8,638.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,658.0	8,659.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,680.0	8,681.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,705.0	8,706.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,793.0	8,794.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,846.0	8,847.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,866.0	8,868.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

3 Plots

RECEIVED: Feb. 13, 2015